

Fig. 1A

1/53

																				M A P P A A R L A L L	11
GT	CG	AC	CC	AC	GC	GT	CC	GC	CC	GC	CC	GC	CT	GC	CT	GC	CT	GC	CT		66
S	A	A	A	L	T	L	A	A	R	P	A	P	S	P	G	L	G	P	G		31
TCC	GCC	GCG	GCG	CTC	ACG	CTG	GCG	GCC	CGG	CCC	GCG	CCT	AGC	CCC	GGC	CTC	GGC	CCC	GGA		126
P	E	C	F	T	A	N	G	A	D	Y	R	G	T	Q	N	W	T	A	L		51
CCC	GAG	TGT	TTC	ACA	GCC	AAT	GGT	GCG	GAT	TAT	AGG	GGA	ACA	CAG	AAC	TGG	ACA	GCA	CTA		186
Q	G	G	K	P	C	L	F	W	N	E	T	F	Q	H	P	Y	N	T	L		71
CAA	GGC	GGG	AAG	CCA	TGT	CTG	TTT	TGG	AAC	GAG	ACT	TTC	CAG	CAT	CCA	TAC	AAC	ACT	CTG		246
K	Y	P	N	G	E	G	G	L	G	E	H	N	Y	C	R	N	P	D	G		91
AAA	TAC	CCC	AAC	GGG	GAG	GGG	GGC	CTG	GGT	GAG	CAC	AAC	TAT	TGC	AGA	AAT	CCA	GAT	GGA		306
D	V	S	P	W	C	Y	V	A	E	H	E	D	G	V	Y	W	K	Y	C		111
GAC	GTG	AGC	CCC	TGG	TGC	TAT	GTG	GCA	GAG	CAC	GAG	GAT	GGT	GTC	TAC	TGG	AAG	TAC	TGT		366
E	I	P	A	C	Q	M	P	G	N	L	G	C	Y	K	D	H	G	N	P		131
GAG	ATA	CCT	GCT	TGC	CAG	ATG	CCT	GGA	AAC	CTT	GGC	TGC	TAC	AAG	GAT	CAT	GGA	AAC	CCA		426
P	P	L	T	G	T	S	K	T	S	N	K	L	T	I	Q	T	C	I	S		151
CCT	CCT	CTA	ACT	GGC	ACC	AGT	AAA	ACG	TCC	AAC	AAA	CTC	ACC	ATA	CAA	ACT	TGC	ATC	AGT		486
F	C	R	S	Q	R	F	K	F	A	G	M	E	S	G	Y	A	C	F	C		171
TTT	TGT	CGG	AGT	CAG	AGG	TTC	AAG	TTT	GCT	GGG	ATG	GAG	TCA	GGC	TAT	GCT	TGC	TTC	TGT		546
G	N	N	P	D	Y	W	K	Y	G	E	A	A	S	T	E	C	N	S	V		191
GGA	AAC	AAT	CCT	GAT	TAC	TGG	AAG	TAC	GGG	GAG	GCA	GCC	AGT	ACC	GAA	TGC	AAC	AGC	GTC		606
C	F	G	D	H	T	Q	P	C	G	G	D	G	R	I	I	L	F	D	T		211
TGC	TTC	GGG	GAT	CAC	ACC	CAA	CCC	TGT	GGT	GGC	GAT	GGC	AGG	ATC	ATC	CTC	TTT	GAT	ACT		666
L	V	G	A	C	G	G	N	Y	S	A	M	S	S	V	V	Y	S	P	D		231
CTC	GTG	GGC	GCC	TGC	GGT	GGG	AAC	TAC	TCA	GCC	ATG	TCT	TCT	GTG	GTC	TAT	TCC	CCT	GAC		726
F	P	D	T	Y	A	T	G	R	V	C	Y	W	T	I	R	V	P	G	A		251
TTC	CCC	GAC	ACC	TAT	GCC	ACG	GGG	AGG	GTC	TGC	TAC	TGG	ACC	ATC	CGG	GTT	CCG	GGG	GCC		786
S	H	I	H	F	S	F	P	L	F	D	I	R	D	S	A	D	M	V	E		271
TCC	CAC	ATC	CAC	TTC	AGC	TTC	CCC	CTA	TTT	GAC	ATC	AGG	GAC	TCG	GCG	GAC	ATG	GTG	GAG		846
L	L	D	G	Y	T	H	R	V	L	A	R	F	H	G	R	S	R	P	P		291
CTT	CTG	GAT	GGC	TAC	ACC	CAC	CGT	GTC	CTA	GCC	CGC	TTC	CAC	GGG	AGG	AGC	CGC	CCA	CCT		906
L	S	F	N	V	S	L	D	F	V	I	L	Y	F	F	S	D	R	I	N		311
CTG	TCC	TTC	AAC	GTC	TCT	CTG	GAC	TTC	GTC	ATC	TTG	TAT	TTC	TTC	TCT	GAT	CGC	ATC	AAT		966
Q	A	Q	G	F	A	V	L	Y	Q	A	V	K	E	E	L	P	Q	E	R		331
CAG	GCC	CAG	GGA	TTT	GCT	GTT	TTA	TAC	CAA	GCC	GTC	AAG	GAA	GAA	CTG	CCA	CAG	GAG	AGG		1026
P	A	V	N	Q	T	V	A	E	V	I	T	E	Q	A	N	L	S	V	S		351
CCC	GCT	GTC	AAC	CAG	ACG	GTG	GCC	GAG	GTG	ATC	ACG	GAG	CAG	GCC	AAC	CTC	AGT	GTC	AGC		1086
A	A	R	S	S	K	V	L	Y	V	I	T	T	S	P	S	H	P	P	Q		371
GCT	GCC	CGG	TCC	TCC	AAA	GTC	CTC	TAT	GTC	ATC	ACC	ACC	AGC	CCC	AGC	CAC	CCA	CCT	CAG		1146
T	V	P	G	S	N	S	W	A	P	P	M	G	A	G	S	H	R	V	E		391
ACT	GTC	CCA	GGT	AGC	AAT	TCC	TGG	GCG	CCA	CCC	ATG	GGG	GCT	GGA	AGC	CAC	AGA	GTT	GAA		1206
G	W	T	V	Y	G	L	A	T	L	L	I	L	T	V	T	A	I	V	A		411

GGA	TGG	ACA	GTC	TAT	GGT	CTG	GCA	ACT	CTC	CTC	ATC	CTC	ACA	GTC	ACA	GCC	ATT	GTA	GCA	1266
K	I	L	L	H	V	T	F	K	S	H	R	V	P	A	S	G	D	L	R	431
AAG	ATA	CTT	CTG	CAC	GTC	ACA	TTC	AAA	TCC	CAT	CGT	GTT	CCT	GCT	TCA	GGG	GAC	CTT	AGG	1326
D	C	H	Q	P	G	T	S	G	E	I	W	S	I	F	Y	K	P	S	T	451
GAT	TGT	CAT	CAA	CCA	GGG	ACT	TCG	GGG	GAA	ATC	TGG	AGC	ATT	TTT	TAC	AAG	CCT	TCC	ACT	1386
S	I	S	I	F	K	K	K	L	K	G	Q	S	Q	Q	D	D	R	N	P	471
TCA	ATT	TCC	ATC	TTT	AAG	AAG	AAA	CTC	AAG	GGT	CAG	AGT	CAA	CAA	GAT	GAC	CGC	AAT	CCC	1446
L	V	S	D	*																476
CTT	GTG	AGT	GAC	TAA																1461
AAACCCCACTGTGCCTAGGACTTGAGGTCCCTCTTTGAGCTCAAGGCTGCCGTGGTCAACCTCTCCTGTGGTTCTTCTC																				1540
TGACAGACTCTTCCCTCCTCTCCCTCTGCCTCGGCCTCTTCGGGGAAACCCTCCTCCTACAGACTAGGAAGAGGCACC																				1619
TGCTGCCAGGGCAGGCAGAGCCTGGATTTCCTCCTGCTT																				1657

Fig. 1B

Fig. 1C

GTCGACCCACGCGTCCGCCCGGCTCCCGGTGCTGCCCCCTCTGCCCCGGGCGCGCCCGGGGTCCCGCACTGACGGCC 79
 M A P P A A R L A L L S A A A L T L A 19
 C ATG GCG CCG CCC GCC GCC CGT CTC GCG CTG CTC TCC GCC GCT GCG CTC ACT CTG GCG 137
 A R P A P G P R S G P E C F T A N G A D 39
 GCC CGG CCC GCG CCC GGT CCC CGC TCC GGC CCC GAG TGC TTC ACA GCC AAC GGT GCA GAT 197
 Y R G T Q S W T A L Q G G K P C L F W N 59
 TAC AGG GGA ACA CAG AGC TGG ACA GCG CTG CAA GGT GGG AAG CCA TGT CTG TTC TGG AAC 257
 E T F Q H P Y N T L K Y P N G E G G L G 79
 GAG ACT TTC CAG CAT CCG TAC AAC ACG CTG AAG TAC CCC AAC GGG GAA GGA GGA CTG GGC 317
 E H N Y C R N P D G D V S P W C Y V A E 99
 GAG CAC AAT TAT TGC AGA AAT CCA GAT GGA GAC GTG AGC CCT TGG TGC TAC GTG GCC GAG 377
 H E D G V Y W K Y C E I P A C Q M P G N 119
 CAT GAG GAC GGA GTC TAC TGG AAG TAC TGT GAA ATT CCT GCC TGC CAG ATG CCT GGA AAC 437
 L G C Y K D H G N P P P L T G T S K T S 139
 CTT GGC TGC TAC AAG GAT CAT GGA AAC CCA CCT CCT CTC ACG GGC ACC AGT AAA ACC TCT 497
 N K L T I Q T C I S F C R S Q R F K F A 159
 AAC AAG CTC ACC ATA CAA ACC TGT ATC AGC TTC TGT CGG AGT CAG AGA TTC AAG TTT GCT 557
 G M E S G Y A C F C G N N P D Y W K H G 179
 GCG ATG GAG TCA GGC TAT GCC TGC TTC TGT GGG AAC AAT CCT GAC TAC TGG AAG CAC GGG 617
 E A A S T E C N S V C F G D H T Q P C G 199
 GAG GCG GCC AGC ACC GAG TGC AAT AGT GTC TGC TTC GGG GAC CAC ACG CAG CCC TGC GGT 677
 G D G R I I L F D T L V G A C G G N Y S 219
 GGG GAC GGC AGG ATT ATC CTC TTT GAC ACT CTC GTG GGC GCC TGC GGT GGG AAC TAC TCA 737
 A M A A V V Y S P D F P D T Y A T G R V 239
 GCC ATG GCA GCC GTG GTG TAC TCC CCT GAC TTC CCT GAC ACC TAC GCC ACT GGC AGA GTC 797
 C Y W T I R V P G A S R I H F N F T L F 259
 TGC TAC TGG ACC ATC CGG GTT CCA GGA GCC TCT CGC ATC CAT TTC AAC TTC ACC CTG TTT 857
 D I R D S A D M -V E L L D G Y T H R V L 279
 GAT ATC AGG GAC TCT GCA GAC ATG GTG GAG CTG CTG GAC GGC TAC ACC CAC CGC GTC CTG 917
 V R L S G R S R P P L S F N V S L D F V 299
 GTC CGG CTC AGT GGG AGG AGC CGC CCG CCT CTG TCT TTC AAT GTC TCT CTG GAT TTT GTC 977
 I L Y F F S D R I N Q A Q G F A V L Y Q 319
 ATT TTG TAT TTC TTC TCT GAT CGC ATC AAT CAG GCC CAG GGA TTT GCT GTG TTG TAC CAA 1037
 A T K E E P P Q E R P A V N Q T L A E V 339
 GCC ACC AAG GAG GAA CCG CCA CAG GAG AGA CCT GCT GTC AAC CAG ACC CTG GCA GAG GTG 1097
 I T E Q A N L S V S A A H S S K V L Y V 359

ATC ACC GAG CAA GCC AAC CTC AGT GTC AGC GCT GCC CAC TCC TCC AAA GTC CTC TAT GTC 1157
 I T P S P S H P P Q T A Q V A I P G H R 379
 ATC ACC CCC AGC CCC AGC CAC CCT CCG CAG ACT GCC CAG GTA GCC ATT CCT GGG CAC CGT 1217
 Q L G P T A T E W K D G L C T A W R P S 399
 CAG TTG GGG CCA ACA GCC ACA GAG TGG AAG GAT GGA CTG TGT ACG GCC TGG CGA CCC TCC 1277
 S S S Q S Q Q L S Q R F F C M S H L N L 419
 TCA TCC TCA CAG TCA CAG CAG TTG TCG CAA AGA TTC TTC TGC ATG TCA CAT TTA AAT CTC 1337
 I E S L H Q E T L G T V V S L G L L E I 439
 ATC GAG TCC CTG CAT CAG GAG ACC TTA GGG ACT GTC GTC AGC CTG GGG CTT CTG GAG ATA 1397
 S G P F S M N L P L Q S P S L R R S S R 459
 TCT GGA CCA TTT TCT ATG AAC CTT CCA CTA CAA TCT CCA TCT TTA AGA AGA AGC TCA AGG 1457
 V R V N K M T A I P S * 471
 GTC AGA GTC AAC AAG ATG ACC GCA ATC CCC TCG TGA 1493
 GTGACTGAAGCCCACGCCTGCATGAGAGGCTCCGCTCCAAGCTCGAGTTTGCTCCCCCTGAGTTCTCCTCTGATGAGTTC 1572
 CCGCCCTTCCCATTACACCACCATCTCTTTTGGGAGCACCCCTGCTTTAGAGGCAGCCCAGCCTGGGATCCTCCATCACAT 1651
 GTACCAGCCTGGCTGCTCTGCTGGGGATGGTAAGACAGGCCCAGGCTGACAGGACACAGCTGGACCTGACTCCAGAAGA 1730
 CTCTTGGGTGGTGGGGAGGTATAGTGTAGGATGAGTTTTCTTGCTTCTTCTCTGTTTTGTCCACATACAGATCGGTTC 1809
 CCGTGTCTTTACAGTTTGCAATAGAGCCAGACTGAAAGAACTGTCAGGTTTTCTAGGCTGGCCTGGTTCCCCACTAAGA 1888
 GTGGCATTGGCGCCCTAGAGGCCAGAGGCCAGTGTAGGCTTGGAGCTTTCTCTGCTGCCAACTACCATGTGTTCATCT 1967
 AGTCCGAGGGGACTGAGAGCAGGGCCACACCAGATGTCATCTTTCTAGAGGGTTCTTTTGTAGTACCCACTGACCAATGG 2046
 GGCAAGCCTGAGGATTGGTCCATCTGTTTGTCCATGGAACAGACACAGTGAACCTCCTGGATACTAGACTTAACTAGCC 2125
 TAGCCCTCAAGTAGTTGCCAATCCTGTGGAATCAGAATTCAGCCTGTCTTCTGTCTCAGCCCAAGCCTGTAGCCTAG 2204
 AGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCACAGAGCTGGGGCTGTAGCCTAGAGC 2283
 TGGGGCTGTAGCACAGAGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCACAGAGCTGGGGCTGTAGCACAGAGCTGG 2362
 GGCTGTAGCCTAGAGCTGGGGCTGTAGCACAGAGCTGGGGCTGTAACCTCAGCGATCAAGAGCTTGCTTTGTATACATCG 2441
 GACCCTAGGTTCTATCCCAGCACTATCAGAAGGTGGGAGAGAAAAAGACTGCACCATAGCATGCGGGCAGCATCTGTGG 2520
 TTCTTACGTGAGGTGTCATCATTTTAAAAGCAGATCAAACTACCGCGAGTTTGTTCCTTTGTCCCTTATCATGGGAGC 2599
 AGAGTAGGAGTAAGGGCTCTGGTCTTGCTCATTTGTCCCCCAGACAGGGAGGCAGGAAAAGGTCAGGCTTGGGAACCTGGA 2678
 GATCCTCCCAGGAAAAGCTGCAAGATTGAGAGACCCAGCTGCAGTTGGGAGAGGAAGGGCCATCCCCGACTGAGAAGTC 2757
 CTGCAGTCTGGAAGTGGCCTTTGTGTCAGCAGCAGCTGTGCCCTGAAGGTAGACCTTGGTCACTCTCCTGCCAGCCCTTGA 2836
 GCCTCTGCTCTCCTGGGTACCCTCCTGGAACACCATGCTAACCTTCCCCGAGTCTCTCAGTCACTGCCATTGAGGCCTC 2915
 TCCTCTAGCTGCTGCTCCCCAGGACTGTCTGGGGCCATCTGGGGATCAGGGAGAGGCAGCAGGAGTACTGACGAGGCAG 2994

TGACCTGAGCTGATGAGTCAACCAGAGGACACCAGAGTCTACAGTGGGCTGGCTGCTGGCTCAGCTCCTATGGGAGGCC 3073
 TACAGGGGTACTAAGCTAGGGGGTCATCATCTCATTTGATCTGGGAAAGGCTACAGGCTCCTGGATGTGAAGACAGGCC 3152
 CACTACATAAGAAGACCACTGGAAATAGACTGACAGGAGCAGGTTCCACTCTAGGCTGTCCATAGCGTTTGCAGGACTC 3231
 CCCTGAGACCAAGTGTTGAGTCACAGAGTGCCATGTGCGTAGTGCATAAAGGATATGGGTTCCTTAACCAGGGAAGGCTC 3310
 ATAGCAGGCCAGGACATTTTTTCAGCTCAGAGCACTGGCCCCAGGCTTCCTCTAAGCCACCACCTCACCTGTCTCTTCCT 3389
 ATCTCGGACACAGGAAGCAAGCCCCAGTGTTGGTGGCAGCTGCGGCTCAGCATTTGGTGTCCCCAGGAAGGGCGGTGGATG 3468
 TGCCACGCTCCTTTTGTCTGTGGGCCTGGCACAGCCCAACACTGCAGGGGCCACCTTCTCTCTTGGGGGGTAGGGACAC 3547
 ATAAGGAAAACCTAACCCACCTCCAACAACAGCAGAGGACAGTGGGAAGGAAGGGCTGTAAATCACCCAGGCCAGACCTC 3626
 CAGAAATGACAGGCACAGTCTGTTAGAACCCTGTAGGCAGCCAGTCACAGAGGGCCCTTTGTGCTGGTAACACCCTGCCTG 3705
 GAGCATAGGGGTAAAGCCGAGGGAGAAGAGCAGCCCTCAGAGACATCAGCTAAAAACATAGGTGCCCTATGTCCCTCCCT 3784
 TCCTGTCACACTGCTTACAAAGCAGAGACAGAGTAGGAAAGAGGTCTTCATCCTCTCCACATCAGCAAGGATAGGGCT 3863
 GCGGCTGCCTAAAGTGAGCAAGGAGAACAGAGCTCTGGACTTCTCTAAATGTGGGCTCTGGCTTCAGACTCCTCAGCCA 3942
 AAAGCTCTTGAAGATCAAAGCTCTGGCGGGTACAGCTGTCTGGCCTGTGGGCCAGCCCATGGGATGTGCCTGGGCCAG 4021
 GTGCCACCCACGGCTCACTGTCTATCCAGGAGGGACCCACCTGATGCTCCTCATCATCCGCTGGCCTGACACTATCA 4100
 GAGCTCGCGCCGGCTGTTGCCAGGGACAGACTGACTACACTTGACCTTCAAGAGCACTTAGAAGTGGATGGCCTCCAGA 4179
 CTCTGTCTAGCCTCTGCAGGGGCCACACAAGTCTCCCGAGCCAAGTCCACAAGCCTCCATGGTTCCCTGGCTCCTCTCCT 4258
 GTGGAGTGCTCTGTTTGTATGTCTGAGGTCTGCTTTGGGTACCGCCCTGGGAACCTGCTAACCTCCGATTGGTCCCTTTGT 4337
 GTCTCTGTTTACTGTCTCTTCTACCTCCAGGTCACCTTAGCTCTGGCTGCTCTGGCTGGGAGTGGGGGGTGGGGATGCT 4416
 GGTGTCACCCCAACCTGGTCTGCCAACAGAACCTGGGGGGCTCACACGGGCTCCTGTCTTGCCAAGCTGGAGCTGAGC 4495
 ACCTGGCCCAGGCTGAGTGGGGCAGAGCAAACAAGTGGGAAGGGATCTCTCTCCTTAGAGGGAGGTGGCCGAAGGTGT 4574
 AGATCCAGCGAGGGAGCTGCCATCCCCGCCACCTTCATAGCAGCAAGACCTTCCCATTTCCAATCTCACCTCCAGCAG 4653
 GGATATGACTTTGGACAACAAGGCTTTATTTGTAAATATGCTCTTAATATGCAACTTTGAGAATAAGATAGAAACATCA 4732
 TGTATTTTAAATATATAAAATGAAGTGTGACACACTGTATACAATTTAATATATATTTTTTAGGATTTTGTATTTTAAGAA 4811
 AATGGAATGTGATGGTACTTAACTTTTACAAAAGAGAGAAAATGTTATTTTTACTGTTTGAAGAAAATAAATATTCTCA 4890
 TTGTTGTAGAAAAAAGGGCGGCCGC 4928

Fig. 1E

	10	20	30	40	50	60	70
Hum.	MAPPAARLALLSAAALTLAARPAPSPGLGPGPECFTANGADYRGTQNTALQGGKPCLFWNETFQHPYNT						
Mur.	MAPPAARLALLSAAALTLAARPAPGPR--SGPECFTANGADYRGTQSWTALQGGKPCLFWNETFQHPYNT						
	10	20	30	40	50	60	
	80	90	100	110	120	130	140
Hum.	LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNNPPPLTGTSTK						
Mur.	LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNNPPPLTGTSTK						
	70	80	90	100	110	120	130
	150	160	170	180	190	200	210
Hum.	SNKLTITQTCISFCRSQRKFAGMESGYACFCGNNPDYWKYGEAASTECNSVCFGDHTQPCGGDGRILFD						
Mur.	SNKLTITQTCISFCRSQRKFAGMESGYACFCGNNPDYWKHGEAASTECNSVCFGDHTQPCGGDGRILFD						
	140	150	160	170	180	190	200
	220	230	240	250	260	270	280
Hum.	TLVGACGGNYSAMSSVVYSPDFPDYATGRVCYWTIRVPGASHIHFSFPLFDIRDSADMVELLDGYTHRV						
Mur.	TLVGACGGNYSAMAAVVYSPDFPDYATGRVCYWTIRVPGASRIHFNFPLFDIRDSADMVELLDGYTHRV						
	210	220	230	240	250	260	270
	290	300	310	320	330	340	350
Hum.	LARFHGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQAVKEELPQERPAVNQTVAEVITEQANLSV						
Mur.	LVRLSGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQATKEEPPQERPAVNQTVAEVITEQANLSV						
	280	290	300	310	320	330	340
	360	370	380	390	400	410	420
Hum.	SAARSSKVLYVITTPSHPPQTVPGSNSWAPPMGAGSHRVEGWTVYGLATLLILTVAIVAKILLHVTFK						
Mur.	SAAHSSKVLYVITTPSHPPQTAQVAIPGHRQLGPTA---TEWKD-GLCTAWRPSSSSSQSQQLSQRFFCM						
	350	360	370	380	390	400	410
	430	440	450	460	470		
Hum.	SHRVPASGDLRDCHQPGTSGEIWSIFYKPSTISIFKKKLKGQSQ-QDDRNPLVSD						
Mur.	SHLNLIESLHQETLGTVVSLGLLEISGPFSSMNLPLQSPSLRRSSRVVNMKMTAIPS						
	420	430	440	450	460	470	

Fig. 1F

Fig. 1G

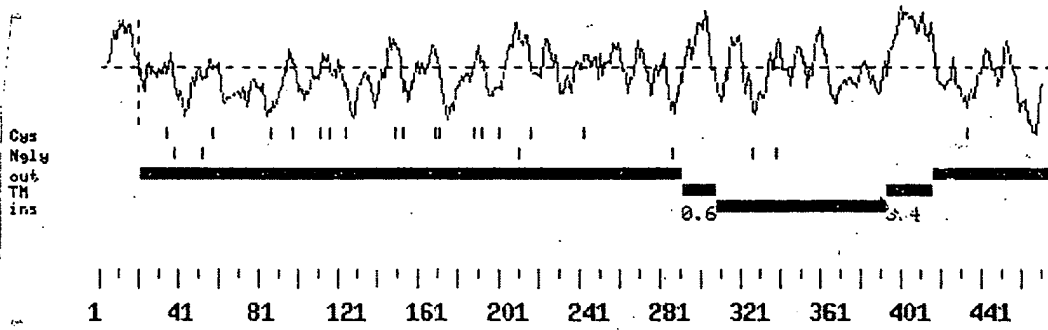


Fig. 1H

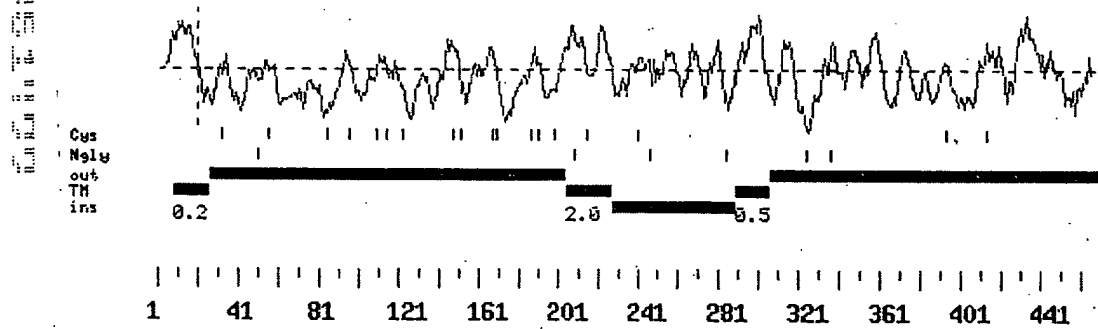


Fig. 2A

GCGGCCGCTCGCGATCTAGAACTAGTA																				M	M	L	P	Q	N	S	W	H	I	D	F	G	13
																				ATG	ATG	CTG	CCT	CAA	AAC	TCG	TGG	CAT	ATT	GAT	TTT	GGA	66
R	C	C	C	H	Q	N	L	F	S	A	V	V	T	C	I	L	L	L	N	33													
AGA	TGC	TGC	TGT	CAT	CAG	AAC	CTT	TTC	TCT	GCT	GTG	GTA	ACT	TGC	ATC	CTG	CTC	CTG	AAT	126													
S	C	F	L	I	S	S	F	N	G	T	D	L	E	L	R	L	V	N	G	53													
TCC	TGC	TTT	CTC	ATC	AGC	AGT	TTT	AAT	GGA	ACA	GAT	TTG	GAG	TTG	AGG	CTG	GTC	AAT	GGA	186													
D	G	P	C	S	G	T	V	E	V	K	F	Q	G	Q	W	G	T	V	C	73													
GAC	GGT	CCC	TGC	TCT	GGG	ACA	GTG	GAG	GTG	AAA	TTC	CAG	GGA	CAG	TGG	GGG	ACT	GTG	TGT	246													
D	D	G	W	N	T	T	A	S	T	V	V	C	K	Q	L	G	C	P	F	93													
GAT	GAT	GGG	TGG	AAC	ACT	ACT	GCC	TCA	ACT	GTC	GTG	TGC	AAA	CAG	CTT	GGA	TGT	CCA	TTT	306													
S	F	A	M	F	R	F	G	Q	A	V	T	R	H	G	K	I	W	L	D	113													
TCT	TTC	GCC	ATG	TTT	CGT	TTT	GGA	CAA	GCC	GTG	ACT	AGA	CAT	GGA	AAA	ATT	TGG	CTT	GAT	366													
D	V	S	C	Y	G	N	E	S	A	L	W	E	C	Q	H	R	E	W	G	133													
GAT	GTT	TCC	TGT	TAT	GGA	AAT	GAG	TCA	GCT	CTC	TGG	GAA	TGT	CAA	CAC	CGG	GAA	TGG	GGA	426													
S	H	N	C	Y	H	G	E	D	V	G	V	N	C	Y	G	E	A	N	L	153													
AGC	CAT	AAC	TGT	TAT	CAT	GGA	GAA	GAT	GTT	GGT	GTG	AAC	TGT	TAT	GGT	GAA	GCC	AAT	CTG	486													
G	L	R	L	V	D	G	N	N	S	C	S	G	R	V	E	V	K	F	Q	173													
GGT	TTG	AGG	CTA	GTG	GAT	GGA	AAC	AAC	TCC	TGT	TCA	GGG	AGA	GTG	GAG	GTG	AAA	TTC	CAA	546													
E	R	W	G	T	I	C	D	D	G	W	N	L	N	T	A	A	V	V	C	193													
GAA	AGG	TGG	GGG	ACT	ATA	TGT	GAT	GAT	GGG	TGG	AAC	TTG	AAT	ACT	GCT	GCC	GTG	GTG	TGC	606													
R	Q	L	G	C	P	S	S	F	I	S	S	G	V	V	N	S	P	A	V	213													
AGG	CAA	CTA	GGA	TGT	CCA	TCT	TCT	TTT	ATT	TCT	TCT	GGA	GTT	GTT	AAT	AGC	CCT	GCT	GTA	666													
L	R	P	I	W	L	D	D	I	L	C	Q	G	N	E	L	A	L	W	N	233													
TTG	CGC	CCC	ATT	TGG	CTG	GAT	GAC	ATT	TTA	TGC	CAG	GGG	AAT	GAG	TTG	GCA	CTC	TGG	AAT	726													
C	R	H	R	G	W	G	N	H	D	C	S	H	N	E	D	V	T	L	T	253													
TGC	AGA	CAT	CGT	GGA	TGG	GGA	AAT	CAT	GAC	TGC	AGT	CAC	AAT	GAG	GAT	GTC	ACA	TTA	ACT	786													
C	Y	D	S	S	D	L	E	L	R	L	V	G	G	T	N	R	C	M	G	273													
TGT	TAT	GAT	AGT	AGT	GAT	CTT	GAA	CTA	AGG	CTT	GTA	GGT	GGA	ACT	AAC	CGC	TGT	ATG	GGG	846													
R	V	E	L	K	I	Q	G	R	W	G	T	V	C	H	H	K	W	N	N	293													
AGA	GTA	GAG	CTG	AAA	ATC	CAA	GGA	AGG	TGG	GGG	ACC	GTA	TGC	CAC	CAT	AAG	TGG	AAC	AAT	906													
A	A	A	D	V	V	C	K	Q	L	G	C	G	T	A	L	H	F	A	G	313													
GCT	GCA	GCT	GAT	GTC	GTA	TGC	AAG	CAG	TTG	GGA	TGT	GGA	ACC	GCA	CTT	CAC	TTC	GCT	GGC	966													
L	P	H	L	Q	S	G	S	D	V	V	W	L	D	G	V	S	C	S	G	333													
TTG	CCT	CAT	TTG	CAG	TCA	GGG	TCT	GAT	GTT	GTA	TGG	CTT	GAT	GGT	GTC	TCC	TGC	TCC	GGT	1026													
N	E	S	F	L	W	D	C	R	H	S	G	T	V	N	F	D	C	L	H	353													
AAT	GAA	TCT	TTT	CTT	TGG	GAC	TGC	AGA	CAT	TCC	GGA	ACC	GTC	AAT	TTT	GAC	TGT	CTT	CAT	1086													

Q	N	D	V	S	V	I	C	S	D	G	A	D	L	E	L	R	L	A	D	373
CAA	AAC	GAT	GTG	TCT	GTG	ATC	TGC	TCA	GAT	GGA	GCA	GAT	TTG	GAA	CTG	CGA	CTA	GCA	GAT	1146
G	S	N	N	C	S	G	R	V	E	V	R	I	H	E	Q	W	W	T	I	393
GGA	AGT	AAC	AAT	TGT	TCA	GGG	AGA	GTA	GAG	GTG	AGA	ATT	CAT	GAA	CAG	TGG	TGG	ACA	ATA	1206
C	D	Q	N	W	K	N	E	Q	A	L	V	V	C	K	Q	L	G	C	P	413
TGT	GAC	CAG	AAC	TGG	AAG	AAT	GAA	CAA	GCC	CTT	GTG	GTT	TGT	AAG	CAG	CTA	GGA	TGT	CCG	1266
F	S	V	F	G	S	R	R	A	K	P	S	N	E	A	R	D	I	W	I	433
TTC	AGC	GTC	TTT	GGC	AGT	CGT	CGT	GCT	AAA	CCT	AGT	AAT	GAA	GCT	AGA	GAC	ATT	TGG	ATA	1326
N	S	I	S	C	T	G	N	E	S	A	L	W	D	C	T	Y	D	G	K	453
AAC	AGC	ATA	TCT	TGC	ACT	GGG	AAT	GAG	TCA	GCT	CTC	TGG	GAC	TGC	ACA	TAT	GAT	GGA	AAA	1386
A	K	R	T	C	F	R	R	S	D	A	G	V	I	C	S	D	K	A	D	473
GCA	AAG	CGA	ACA	TGC	TTC	CGA	AGA	TCA	GAT	GCT	GGA	GTA	ATT	TGT	TCT	GAT	AAG	GCA	GAT	1446
L	D	L	R	L	V	G	A	H	S	P	C	Y	G	R	L	E	V	K	Y	493
CTG	GAC	CTA	AGG	CTT	GTC	GGG	GCT	CAT	AGC	CCC	TGT	TAT	GGG	AGA	TTG	GAG	GTG	AAA	TAC	1506
Q	G	E	W	G	T	V	C	H	D	R	W	S	T	R	N	A	A	V	V	513
CAA	GGA	GAG	TGG	GGG	ACT	GTG	TGT	CAT	GAC	AGA	TGG	AGC	ACA	AGG	AAT	GCA	GCT	GTT	GTG	1566
C	K	Q	L	G	C	G	K	P	M	H	V	F	G	M	T	Y	F	K	E	533
TGT	AAA	CAA	TTG	GGA	TGT	GGA	AAG	CCT	ATG	CAT	GTG	TTT	GGT	ATG	ACC	TAT	TTT	AAA	GAA	1626
A	S	G	P	I	W	L	D	D	V	S	C	I	G	N	E	S	N	I	W	553
GCA	TCA	GGA	CCT	ATT	TGG	CTG	GAT	GAC	GTT	TCT	TGC	ATT	GGA	AAT	GAG	TCA	AAT	ATC	TGG	1686
D	C	E	H	S	G	W	G	K	H	N	C	V	H	R	E	D	V	I	V	573
GAC	TGT	GAA	CAC	AGT	GGA	TGG	GGA	AAG	CAT	AAT	TGT	GTA	CAC	AGA	GAG	GAT	GTG	ATT	GTA	1746
T	C	S	G	D	A	T	W	G	L	R	L	V	G	G	S	N	R	C	S	593
AAC	TGC	TCA	GGT	GAT	GCA	ACA	TGG	GGC	CTG	AGG	CTG	GTG	GGC	GGC	AGC	AAC	CGC	TGC	TCG	1806
G	R	L	E	V	Y	F	Q	G	R	W	G	T	V	C	D	D	G	W	N	613
GGA	AGA	CTG	GAG	GTG	TAC	TTT	CAA	GGA	CGG	TGG	GGC	ACA	GTG	TGT	GAT	GAC	GGC	TGG	AAC	1866
S	K	A	A	A	V	V	C	S	Q	L	D	C	P	S	S	I	I	G	M	633
AGT	AAA	GCT	GCA	GCT	GTG	GTG	TGT	AGC	CAG	CTG	GAC	TGC	CCA	TCT	TCT	ATC	ATT	GGC	ATG	1926
G	L	G	N	A	S	T	G	Y	G	K	I	W	L	D	D	V	S	C	D	653
GGT	CTG	GGA	AAC	GCT	TCT	ACA	GGA	TAT	GGA	AAA	ATT	TGG	CTC	GAT	GAT	GTT	TCC	TGT	GAT	1986
G	D	E	S	D	L	W	S	C	R	N	S	G	W	G	N	N	D	C	S	673
GGA	GAT	GAG	TCA	GAT	CTC	TGG	TCA	TGC	AGG	AAC	AGT	GGG	TGG	GGA	AAT	AAT	GAC	TGC	AGT	2046
H	S	E	D	V	G	V	I	C	S	D	A	S	D	M	E	L	R	L	V	693
CAC	AGT	GAA	GAT	GTT	GGA	GTG	ATC	TGT	TCT	GAT	GCA	TCG	GAT	ATG	GAG	CTG	AGG	CTT	GTG	2106
G	G	S	S	R	C	A	G	K	V	E	V	N	V	Q	G	A	V	G	I	713
GGT	GGA	AGC	AGC	AGG	TGT	GCT	GGA	AAA	GTT	GAG	GTG	AAT	GTC	CAG	GGT	GCC	GTG	GGA	ATT	2166
L	C	A	N	G	W	G	M	N	I	A	E	V	V	C	R	Q	L	E	C	733
CTG	TGT	GCT	AAT	GGC	TGG	GGA	ATG	AAC	ATT	GCT	GAA	GTT	GTT	TGC	AGG	CAA	CTT	GAA	TGT	2226

G	S	A	I	R	V	S	R	E	P	H	F	T	E	R	T	L	H	I	L	753
GGG	TCT	GCA	ATC	AGG	GTC	TCC	AGA	GAG	CCT	CAT	TTC	ACA	GAA	AGA	ACA	TTA	CAC	ATC	TTA	2286
M	S	N	S	G	C	T	G	G	E	A	S	L	W	D	C	I	R	W	E	773
ATG	TCG	AAT	TCT	GGC	TGC	ACT	GGA	GGG	GAA	GCC	TCT	CTC	TGG	GAT	TGT	ATA	CGA	TGG	GAG	2346
W	K	Q	T	A	C	H	L	N	M	E	A	S	L	I	C	S	A	H	R	793
TGG	AAA	CAG	ACT	GCG	TGT	CAT	TTA	AAT	ATG	GAA	GCA	AGT	TTG	ATC	TGC	TCA	GCC	CAC	AGG	2406
Q	P	R	L	V	G	A	D	M	P	C	S	G	R	V	E	V	K	H	A	813
CAG	CCC	AGG	CTG	GTT	GGA	GCT	GAT	ATG	CCC	TGC	TCT	GGA	CGT	GTT	GAA	GTG	AAA	CAT	GCA	2466
D	T	W	R	S	V	C	D	S	D	F	S	L	H	A	A	N	V	L	C	833
GAC	ACA	TGG	CGC	TCT	GTC	TGT	GAT	TCT	GAT	TTC	TCT	CTT	CAT	GCT	GCC	AAT	GTG	CTG	TGC	2526
R	E	L	N	C	G	D	A	I	S	L	S	V	G	D	H	F	G	K	G	853
AGA	GAA	TTA	AAT	TGT	GGA	GAT	GCC	ATA	TCT	CTT	TCT	GTG	GGA	GAT	CAC	TTT	GGA	AAA	GGG	2586
N	G	L	T	W	A	E	K	F	Q	C	E	G	S	E	T	H	L	A	L	873
AAT	GGT	CTA	ACT	TGG	GCC	GAA	AAG	TTC	CAG	TGT	GAA	GGG	AGT	GAA	ACT	CAC	CTT	GCA	TTA	2646
C	P	I	V	Q	H	P	E	D	T	C	I	H	S	R	E	V	G	V	V	893
TGC	CCC	ATT	GTT	CAA	CAT	CCG	GAA	GAC	ACT	TGT	ATC	CAC	AGC	AGA	GAA	GTT	GGA	GTT	GTC	2706
C	S	R	Y	T	D	V	R	L	V	N	G	K	S	Q	C	D	G	Q	V	913
TGT	TCC	CGA	TAT	ACA	GAT	GTC	CGA	CTT	GTG	AAT	GGC	AAA	TCC	CAG	TGT	GAC	GGG	CAA	GTG	2766
E	I	N	V	L	G	H	W	G	S	L	C	D	T	H	W	D	P	E	D	933
GAG	ATC	AAC	GTG	CTT	GGA	CAC	TGG	GGC	TCA	CTG	TGT	GAC	ACC	CAC	TGG	GAC	CCA	GAA	GAT	2826
A	R	V	L	C	R	Q	L	S	C	G	T	A	L	S	T	T	G	G	K	953
GCC	CGT	GTT	CTA	TGC	AGA	CAG	CTC	AGC	TGT	GGG	ACT	GCT	CTC	TCA	ACC	ACA	GGA	GGA	AAA	2886
Y	I	G	E	R	S	V	R	V	W	G	H	R	F	H	C	L	G	N	E	973
TAT	ATT	GGA	GAA	AGA	AGT	GTT	CGT	GTG	TGG	GGA	CAC	AGG	TTT	CAT	TGC	TTA	GGG	AAT	GAG	2946
S	L	L	D	N	C	Q	M	T	V	L	G	A	P	P	C	I	H	G	N	993
TCA	CTT	CTG	GAT	AAC	TGT	CAA	ATG	ACA	GTT	CTT	GGA	GCA	CCT	CCC	TGT	ATC	CAT	GGA	AAT	3006
T	V	S	V	I	C	T	G	S	L	T	Q	P	L	F	P	C	L	A	N	1013
ACT	GTC	TCT	GTG	ATC	TGC	ACA	GGA	AGC	CTG	ACC	CAG	CCA	CTG	TTT	CCA	TGC	CTC	GCA	AAT	3066
V	S	D	P	Y	L	S	A	V	P	E	G	S	A	L	I	C	L	E	D	1033
GTA	TCT	GAC	CCA	TAT	TTG	TCT	GCA	GTT	CCA	GAG	GGC	AGT	GCT	TTG	ATC	TGC	TTA	GAG	GAC	3126
K	R	L	R	L	V	D	G	D	S	R	C	A	G	R	V	E	I	Y	H	1053
AAA	CGG	CTC	CGC	CTA	GTG	GAT	GGG	GAC	AGC	CGC	TGT	GCC	GGG	AGA	GTA	GAG	ATC	TAT	CAC	3186
D	G	F	W	G	T	I	C	D	D	G	W	D	L	S	D	A	H	V	V	1073
GAC	GGC	TTC	TGG	GGC	ACC	ATC	TGT	GAT	GAC	GGC	TGG	GAC	CTG	AGC	GAT	GCC	CAC	GTG	GTG	3246
C	Q	K	L	G	C	G	V	A	F	N	A	T	V	S	A	H	F	G	E	1093
TGT	CAA	AAG	CTG	GGC	TGT	GGA	GTG	GCC	TTC	AAT	GCC	ACG	GTC	TCT	GCT	CAC	TTT	GGG	GAG	3306
G	S	G	P	I	W	L	D	D	L	N	C	T	G	T	E	S	H	L	W	1113
GGG	TCA	GGG	CCC	ATC	TGG	CTG	GAT	GAC	CTG	AAC	TGC	ACA	GGA	ACG	GAG	TCC	CAC	TTG	TGG	3366

11/53

Q	C	P	S	R	G	W	G	Q	H	D	C	R	H	K	E	D	A	G	V	1133
CAG	TGC	CCT	TCC	CGC	GGC	TGG	GGG	CAG	CAC	GAC	TGC	AGG	CAC	AAG	GAG	GAC	GCA	GGG	GTC	3426
I	C	S	E	F	T	A	L	R	L	Y	S	E	T	E	T	E	S	C	A	1153
ATC	TGC	TCA	GAA	TTC	ACA	GCC	TTG	AGG	CTC	TAC	AGT	GAA	ACT	GAA	ACA	GAG	AGC	TGT	GCT	3486
G	R	L	E	V	F	Y	N	G	T	W	G	S	V	G	R	R	N	I	T	1173
GGG	AGA	TTG	GAA	GTC	TTC	TAT	AAC	GGG	ACC	TGG	GGC	AGC	GTC	GGC	AGG	AGG	AAC	ATC	ACC	3546
T	A	I	A	G	I	V	C	R	Q	L	G	C	G	E	N	G	V	V	S	1193
ACA	GCC	ATA	GCA	GGC	ATT	GTG	TGC	AGG	CAG	CTG	GGC	TGT	GGG	GAG	AAT	GGA	GTT	GTC	AGC	3606
L	A	P	L	S	K	T	G	S	G	F	M	W	V	D	D	I	Q	C	P	1213
CTC	GCC	CCT	TTA	TCT	AAG	ACA	GGC	TCT	GGT	TTC	ATG	TGG	GTG	GAT	GAC	ATT	CAG	TGT	CCT	3666
K	T	H	I	S	I	W	Q	C	L	S	A	P	W	E	R	R	I	S	S	1233
AAA	ACG	CAT	ATC	TCC	ATA	TGG	CAG	TGC	CTG	TCT	GCC	CCA	TGG	GAG	CGA	AGA	ATC	TCC	AGC	3726
P	A	E	E	T	W	I	T	C	E	D	R	I	R	V	R	G	G	D	T	1253
CCA	GCA	GAA	GAG	ACC	TGG	ATC	ACA	TGT	GAA	GAT	AGA	ATA	AGA	GTG	CGT	GGA	GGA	GAC	ACC	3786
E	C	S	G	R	V	E	I	W	H	A	G	S	W	G	T	V	C	D	D	1273
GAG	TGC	TCT	GGG	AGA	GTG	GAG	ATC	TGG	CAC	GCA	GGC	TCC	TGG	GGC	ACA	GTG	TGT	GAT	GAC	3846
S	W	D	L	A	E	A	E	V	V	C	Q	Q	L	G	C	G	S	A	L	1293
TCC	TGG	GAC	CTG	GCC	GAG	GCG	GAA	GTG	GTG	TGT	CAG	CAG	CTG	GGC	TGT	GGC	TCT	GCT	CTG	3906
A	A	L	R	D	A	S	F	G	Q	G	T	G	T	I	W	L	D	D	M	1313
GCT	GCC	CTG	AGG	GAC	GCT	TCG	TTT	GGC	CAG	GGA	ACT	GGA	ACC	ATC	TGG	TTG	GAT	GAC	ATG	3966
R	C	K	G	N	E	S	F	L	W	D	C	H	A	K	P	W	G	Q	S	1333
CGG	TGC	AAA	GGA	AAT	GAG	TCA	TTT	CTA	TGG	GAC	TGT	CAC	GCC	AAA	CCC	TGG	GGA	CAG	AGT	4026
D	C	G	H	K	E	D	A	G	V	R	C	S	G	Q	S	L	K	S	L	1353
GAC	TGT	GGA	CAC	AAG	GAA	GAT	GCT	GGC	GTG	AGG	TGC	TCT	GGA	CAG	TCG	CTG	AAA	TCA	CTG	4086
N	A	S	S	G	H	L	A	L	I	L	S	S	I	F	G	L	L	L	L	1373
AAAT	GCC	TCC	TCA	GGT	CAT	TTA	GCA	CTT	ATT	TTA	TCC	AGT	ATC	TTT	GGG	CTC	CTT	CTC	CTG	4146
V	L	F	I	L	F	L	T	W	C	R	V	Q	K	Q	K	H	L	P	L	1393
GTT	CTG	TTT	ATT	CTA	TTT	CTC	ACG	TGG	TGC	CGA	GTT	CAG	AAA	CAA	AAA	CAT	CTG	CCC	CTC	4206
R	V	S	T	R	R	R	G	S	L	E	E	N	L	F	H	E	M	E	T	1413
AGA	GTT	TCA	ACC	AGA	AGG	AGG	GGT	TCT	CTC	GAG	GAG	AAT	TTA	TTC	CAT	GAG	ATG	GAG	ACC	4266
C	L	K	R	E	D	P	H	G	T	R	T	S	D	D	T	P	N	H	G	1433
TGC	CTC	AAG	AGA	GAG	GAC	CCA	CAT	GGG	ACA	AGA	ACC	TCA	GAT	GAC	ACC	CCC	AAC	CAT	GGT	

TGATAATAAAATTGAATTATGTATATCACTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAACGGACGCGTGGGTCG 4626

AC 4628

Fig. 2E

[illegible]

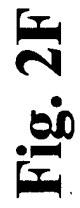


Fig. 2G

	10	20	30	40	50	60	70
Hum	MMLPQNSWHIDFGRCCCHQNLFSAVVTCILLNNSCFLISSFNGTDLELRLVNGDGPCSGTVEVKFQGQWG						
WCI	MAL-----GR---HLSLRGL---CVLLLT--MVG---GQALELRLKDGVHRCGRVEVKHQGEWG						
	10	20	30	40	50		
	80	90	100	110	120	130	
Hum	TVCDGWNNTASTVVCQQLGCPFSFAMFRFGQAVTR-HGKIWLDDVSCYGNESALWECQH---REWGSHN						
WCI	TVDGYRWTLKDASVVCQQLGCCGAAIG-FPGGAYFGPGLPIWLLYTSCEGTSTVSDCHESNSIKDYRNDG						
	60	70	80	90	100	110	
	140	150	160	170	180	190	200
Hum	CYHGEDVGVNVCYGEANLGLRLVDGNNSCSGRVEVKFQERWGTICDDGWNLTAAVVCQQLGCPSSFISSG						
WCI	YNHGRDAGVVCSG----FVRLAGGDGPCSGRVEVHSGEAWIPVSDGNFTLATAQIIICAEELGCGKAVSVLG						
	120	130	140	150	160	170	180
	210	220	230	240	250	260	270
Hum	VNSPAVLRPIWLLDILCQGNELALWNCRHGWGNHDCSHNEDVTLTCYDSSDLELRLVGGTNRCMGRVE						
WCI	HELFRSSAQVWAEFRCEGEEPVLWVCPVPCPGGTCHHSGSAQVVC SAYSEVRL-MTNGSSQCEGQVE						
	190	200	210	220	230	240	250
	280	290	300	310	320	330	340
Hum	LKIQGRWGTVCCHHKWNNAADVCKQLGCGTALHFAGLPHLQSGSDVVWLDGVSCSGNESFLWDCRHSGT						
WCI	MNISGQWRALCASHWSLANANVICQQLGCGVAISTPGGPHLVEEGDQILTARFHCSGAESFLWSCPVTAL						
	260	270	280	290	300	310	320
	350	360	370	380	390	400	410
Hum	VNFDCIHQNDVSVICSDGADLELRLADGSNNCSGRVEVRIHEQWWTICDQNWKNEQALVVCQQLGCPFSV						
WCI	GGPDCSHGNTASVICS-GNQI-----QVLPQCND-----SV						
	330	340				350	
	420	430	440	450	460	470	480
Hum	FGSRRAKPSNEARDIWINSISCTGNESALWDCTYDGKAKRTCFFRRSDAGVICSDKADLDLRLVGAHSPCY						
WCI	-----SQPTGSA-----ASEDSA---PY-----CSDSRQL--RLVDGGGPCA						
	360				370	380	
	490	500	510	520	530	540	550
Hum	GRLEVKYQGEWGTVCCHDRWSTRNAADVCKQLGCGKPMHVFGMTYFKEASGPIWLDDVSCIGNESNIWDCE						
WCI	GRVEILDQGSWGTICDDGWLDLDDARVVCQQLGCGEALNATGSAHFGAGSGPIWLDNLNCTGKESHVWRCP						
	390	400	410	420	430	440	450

	560	570	580	590	600	610	620
Hum	HSGWGKHNCVHREDVIVTCSGDATWGLRLVGGSNRCSGRLEVYFQGRWGTVCDDGWNKAAAVVCSQLDC						
	460	470	480	490	500	510	520
WCI	SRGWGQHNCRHKQDAGVICS--EFLALRMVSEDQQCAGWLEVFYNGTWGSVCRNPMEDITVSTICRQLGC						
	630	640	650	660	670	680	690
Hum	PSSIIGMGLGNASTGYGKIWLDDVSCDGEDSLWSCRNSGWGNNDCHSEDVGVICS DASDMELRLVGG						
	530	540	550	560	570	580	590
WCI	GDSGTLNSSVALREGFRPQWVDRIQCRKTDTS LWQCPSPDPWYNNSCSPKEEAYIWCADSR--QIRLVDGG						
	700	710	720	730	740	750	760
Hum	SRCAGKVEVNVQGA VGILCANGWGMNIAEVVCRQLECGSAIRVSREPHTERTLHILMSNSGCTGGEASL						
	600	610	620	630	640	650	660
WCI	GRCSGRVEILDQGSWGTICDDRWDLDARVVCQLGCGEALDATVSSFFGTGSGPIWLDEVNCRGEESQV						
	770	780	790	800	810	820	830
Hum	WDCIRWEWKQTACHLNMEASLICS AHRQPRLVGADMPGSGRVEVKHADTWRSVCDSDFSLHAANVLCREL						
	670	680	690	700	710	720	730
WCI	WRCPSWGWROHNCNHQEDAGVICS GF--VRLAGGDGPGCSGRVEVHSGEAWTPVSDGNFTLPTAQVICAEL						
	840	850	860	870	880	890	900
Hum	NCGDAISLSVGDHFGKGNGLTWA EKFCQEGSETHLALCPIVQHPEDTCIHSREVG VVCSRYTDVRLV-NG						
	740	750	760	770	780	790	800
WCI	GCGKAVSVLGHPFRES DGQVWAEFRCDGGEPELWSCPRVPCPGGTCLHSGAAQVVCSVYTEVQLMKNG						
	910	920	930	940	950	960	970
Hum	KSQCDGQVEINVLGHWSLCDTHWDPEDARVLCRQLSCGTALSTTGK YIGERSVRVWGHFRFHLGNESL						
	810	820	830	840	850	860	870
WCI	TSQCEGQVEMKISGRWRALCASHWSLANANVVC RQLGCGVAISTPRGPHLVEGGDQISTAQFHCSGAESF						
	980	990	1000	1010	1020	1030	1040
Hum	LDNCQMTVLGAPPCIHGNTVSVICTGSLTQPLFPCLANVSDPYLSAVPEGSALICLEDKRLRLVDGDSRC						
	880	890	900	910	920	930	940
WCI	LWSCPV TALGGPDCSHGNTASVICSGNHTQVLPQCNDFLSQPAGSAASEESSPYCSDSRQLRLVDGGGPGC						
	1050	1060	1070	1080	1090	1100	1110
Hum	AGRVEIYHDGFWGTICDDGWDLSDAHVVCQKLGC GVAFNATVSAHFGE GSGPIWLDDL NCTGTESHLWQC						
	950	960	970	980	990	1000	1010
WCI	GGRVEILDQGSWGTICDDDWLDDARVVC RQLGCGEALNATGSAHFGAGSGPIWLDDL NCTGKESHVWRC						
	1120	1130	1140	1150	1160	1170	1180
Hum	PSRGWQHDCRHKEDAGVICSEFTALRLYSETETES CAGRLEV FYNGTWGSVGRNITTAIAGIVCRQLG						
	1020	1030	1040	1050	1060	1070	
WCI	PSRGWGRHDCRHKEDAGVICSEFLALRMVSEDQQ--CAGWLEVFYNGTWGSVCRSPMEDITVSVICRQLG						

Fig. 2H

	1190	1200	1210	1220	1230	1240
Hum	CGENGVVSLAPLSKTGSGFMWVDDIQCPKTHISIWQCLSA PWERRISSPAEETWITCEDR-----					
WCI	CGDSGSLNTSVGLREGSRPRWVDLIQCRKMDTSLWQCPSPGPWKYSSCSPKEEAYISCEGRRPKSCPTAAA					
	1080	1090	1100	1110	1120	1130 1140

	1250	1260	1270	1280	1290	1300
Hum	-----IRVRGGDTECSGRVEIWHAGSWGTVCDSDSLAAEAVVCQQLGCGSALAALRDASFGQGTGTIW					
WCI	CTDREKLRRLRGGDSECSGRVEVWHNGSWGTVCDSDSLAAEAVVCQQLGCGQALEAVRSAAFGPGNGSIW					
	1150	1160	1170	1180	1190	1200 1210

	1310	1320	1330	1340	1350	1360
Hum	LDDMRCKGNESFLWDCHAKPWGQSDCGHKEDAGVRCG-----QSLKSLNASSGHLALI					
WCI	LDEVQCGGRESSLWDCVAEPWGQSDCKHEEDAGVRCSGVRTTLPTTTAGTRTTSNSLPGIFSLPGVLCCLI					
	1220	1230	1240	1250	1260	1270 1280

	1370	1380	1390	1400	1410
Hum	LSSIEGLLLLVLFLFLTWCRVQK-----QKHLPLRVS-----TRRRG-----SLEENLFHEME				
WCI	LGSLLFLVLVILVTQLLRW-RAERRALSSYEDALAEAVYEELDYLLTQKEGLGSPDQMTDVPDENYDDAE				
	1290	1300	1310	1320	1330 1340 1350

	1420	1430	1440
Hum	TC-----LKREDPHGTRTSD-----DTPNHGCEAS-----DTSLLGV		
WCI	EVPVPGTPSPSQGNEEEVPEKEDGVRSSQTGSFLNFSREANPGEGEESFWLLQGKKGDAGYDDVELSA		
	1360	1370	1380 1390 1400 1410 1420

	1450
Hum	LPASEAT-K
WCI	LGTSPVTFS
	1430

Fig. 2I

Fig. 2J

	10	20	30	40	50	60	70
Hum	ATGATGCTGCCTCAAACTCGTGGCATATTGATTTTGAAGATGCTGCTGTATCAGAACCTTTTCTCTG						

WCI	ATG-----GCTC-TGG-----GCAGACA-----CCTCT-CCCTG						
		10				20	
	80	90	100	110	120	130	140
Hum	CTGTGGTAACTTGTCATCCTGCTCCTGAATTCCTGCTTTCTCATCAGCAGTTTAAATGGAACAGATTTGGA						

WCI	C-GGGGACTCT-GTGTCTCTCTCT-----CGGCA-----C-----CATGGTGGTGGTCAAGCTCTGGA						
	30	40	50		60	70	80
	150	160	170	180	190	200	210
Hum	GTTGAGGCTGGTCAATGGAGACGGTCCCTGCTCTGGGACAGTGGAGGTGAAATTCAGGGACAGTGGGGG						

WCI	GCTGAGGTTGAAGGATGGAGTCCATCGCTGTGAGGGGAGAGTGAAGTGAAGCACCAAGGAGAATGGGGC						
	90	100	110	120	130	140	150
	220	230	240	250	260	270	
Hum	ACTGTGTGTGATGATGGGTGGAACACTACTGCCT-CAACTGTCGTGTGCAAACAGCTTGGATGTCCATTT						

WCI	ACAGTGGATGGTTACAGGTGGA-CATTGAAGGATGCATCTGTAGTGTGCAGACAGCTGGGGTGTGGAGCT						
	160	170	180	190	200	210	
	280	290	300	310	320	330	340
Hum	TCTTTCGCCATGTTTCGTTTTTGGACAAGCCGTGA--CTAGACATGGAAAAATTTGGCTTGATGATGTTTC						

WCI	GCCATTG--GTTTTCTGGAGGGGCTTATTTTGGGCCAGGACTTGGCCCCATTTGGCTTTTGTATACCTC						
	220	230	240	250	260	270	280
	350	360	370	380	390	400	410
Hum	CTGTTATGGAAATGAGTCAGCTCTCTGGGAATGTCAACACCGGAATGGGGAAGCCATAACTGTTATCAT						

WCI	ATGTGAAGGGACAGAGTCAACTGTCTAGTGACTGTGAGCAT-TCTAATATTAAAGAC-TATC-GTAATGAT						
	290	300	310	320	330	340	350
	420	430	440	450	460	470	480
Hum	GGAGAAGATGTTGGTGTGAACGTGTTATGGTGAAGCCAA-TCTGGGTTTGAG--GCTAG-TGGATGGAAAC						

WCI	GGCTATAATCATGGTCGGGA---TGCTGGAGTAGTCTGCTCAGGATTTGTGCGTCTGGCTGGAGGGGATG						
	360	370	380	390	400	410	420
	490	500	510	520	530	540	550
Hum	AACTCCTGTTTCAGGGAGAGTGGAGGTGAAATTCAGAAAGGTGGGGGACTATATGTGATGATGGGTGGA						

WCI	GAC-CCTGCTCAGGGCGAGTAGAAGTGCATT--CTGGAGAAGCTTGGATCCCAGTGT-CTGATGGGAACT						
	430	440	450	460	470	480	

	560	570	580	590	600	610	620
Hum	ACTTGAATACTGCTGCCGTGGTGTGCAGGCAACTAGGATGTCCATCTTCTTTATTTCTTCTGGAGTTGT						
WCI	TCACACTTGCCACTGCC-----CAG-----ATCATCTGT-----GCAGAGTTGGG						
	490	500			510	520	
	630	640	650	660	670	680	690
Hum	TAATAGCCCTGCTGTATTGCGCCCCATTGGCTGGATGACATTTTATGCCAGGGGAATGAGTTGGCACT-						
WCI	TTGTGGC-----AAGGCTG--TGTCTGT--CCTGGGACATGAG---CTCTT						
	530		540		550	560	
	700	710	720	730	740	750	760
Hum	CTGGAATTGCAGACATCGTGGATGGGGAAATCATGACTGCAGTCACAATGAGGATGTCACATTAAC TTGT						
WCI	CAGAGAGTCCAGT-GCC-----CAGGTCTG--GGC---TGAAGAGTTCA-----GG						
	570	580		590		600	
	770	780	790	800	810	820	830
Hum	TATGATAGTAGTCACTCTTGAAC TAAGGCTTGTAGGTGGAAC TAACCGCTGTATGGGGAGAGTAGAGCTGA						
WCI	TGTGAGGGGGAGGAGCCTGAGCT---CT-----GGGTCTGCCC-CAGAGTG-----CCCTG-						
	610	620	630		640		650
	840	850	860	870	880	890	900
Hum	AAATCCAAGGAAGGTGGGGGACCGTATGCCACCATAAGTGGAAACAATGCTGCAGCTGATGTCGTATGCAA						
WCI	---TCCA-----GGGGGCACGTGT--CACCACA-GTGGATC--TGCT-CAGGTTGTTTGTTCAGCAT						
		660	670	680	690	700	
	910	920	930	940	950	960	970
Hum	GCAGTTGGGATGTGGAACCGCACTTCACTTCGCTGGCTTGCCCTCATTTGCAGTCAGGGTCTGATGTTGTA						
WCI	ACT-----CAGAAGTCCGGCTCATGACAA-AC-GGCT--CCTC-TCAG-TGTGAAGGGCAGGTGGAGAT						
	710	720	730		740	750	760
	980	990	1000	1010	1020	1030	1040
Hum	TGGCTTGATGGTGTCTCCTGCTCCGGTAATGAATCTTTCTTTGGGACTGCAGACATTCCGGAACCGTCA						
WCI	GAACATT-----TCTG-GACAATGGAGAGCGCTCTGTGCCTCCC-ACTGGAGTCTGGCCAATGCC---A						
	770		780	790	800	810	820
	1050	1060	1070	1080	1090	1100	1110
Hum	ATTTTGA CTGTCTTCATCAAAACGATGTGTCTGTGATCTGCTCAGATGGAGCAGATTTGGA ACTGCGACT						
WCI	ATGTTATCTGTCTGCTCAGCTCGGCTGTGGAGTTGCCATCTCCACCCCGGAG-----GACCAC-ACT						
	830	840	850	860	870		880
	1120	1130	1140	1150	1160	1170	1180
Hum	AGCAGATGGAAGTAACAATTGTTTCAGGGAGAGTAGAGGTGAGAATTCA-TGAACAGTGGTGGACAATATG						
WCI	TG---GTGGAAGAAG---GTGATCAG--ATCCTAACAGCCCGATTTCAGTCTCTG---GGGC---TG						
	890		900		910	920	930

Fig. 2K

	1190	1200	1210	1220	1230	1240	1250
Hum	TGACCAGAACTGGAAGAATGAACAAGCCCTTGTGGTTTGTAAAGCAGCTAGGATGTCCGTTTCAGCGTCTTT						
WCI	AGTCCT-TCCTGTGGAGTTGT-----CCT-GTGACT-----GCC-CTGGGTGGTCTGACTGTTCCCAT						
	940	950	960	970	980	990	

	1260	1270	1280	1290	1300	1310	1320
Hum	GGCAG-TCGTCGTGCTAAACCTAGTAATGAAGCTAGAGACATTTGGATAAACAGCATATCTTGCACTGGG						
WCI	GGCAACACAGCCCTCTGTGATCTGCTCAGGAAACCAGATCCAGGTGCTTCCCCAGTGCAACGA-CTCCG--						
	1000	1010	1020	1030	1040	1050	1060

	1330	1340	1350	1360	1370	1380	1390
Hum	AATGAGTCAGCTCTCTGGGACTGCACATATGATGGAAAAGCAAAGCGAACATGCTTCCGAAGATCAGATG						
WCI	--TGTCTCAACCTACAGGCTCTGC-----GGC-----CTCAGAGGACA-GCGCCC-----CCTACTG						
	1070	1080		1090	1100		

	1400	1410	1420	1430	1440	1450	1460
Hum	CTGGAGTAATTTGTTCTGATAAGGCAGATCTGGACCTAAGGCTTGTTCGGGGCTCATAGCCCCCTGTTATGG						
WCI	CTCAGA-----CAG--CAGGCAGCTCCG--CCTGGTG--GACGGGG-GC--GGTCCCTGCGCCGG						
	1110	1120	1130	1140	1150	1160	

	1470	1480	1490	1500	1510	1520	
Hum	GAGATTGGAGGTGAAATACCAAGGAGAGTGGGGGACTGTGTGTATGACAGATGGAGCACAAGG-AATGC						
WCI	GAGAGTGGAGATCCTTGACCAGGGCTCCTGGGGCACCATCTGTGATGACGGCTGGGAC-CTGGACGATGC						
	1170	1180	1190	1200	1210	1220	

	1530	1540	1550	1560	1570	1580	1590
Hum	A-GCTGTTGTGTGTAAACAATTGGGATGTGGA-AAGCCTATGCATGTGTTTGGTATGACCTATTTTAAAG						
WCI	CCGC-GTGGTGTGCAGGCAGCTGGGCTGTGGAGAAGCCCTCA-ATGCCACGGGGTCTGCTCACTTCGGGG						
	1230	1240	1250	1260	1270	1280	1290

	1600	1610	1620	1630	1640	1650	1660
Hum	AAGCATCAGGACCTATTTGGCTGGATGACGTTTCTTGCAATTGGAAATGAGTCAAATATCTGGGACTGTGA						
WCI	CAGGATCAGGGCCCATCTGGTTGGACAACCTTGAAGTGCACAGGAAAGGAGTCCCACGTGTGGAGGTGCC						
	1300	1310	1320	1330	1340	1350	1360

	1670	1680	1690	1700	1710	1720	1730
Hum	ACACAGTGGATGGGGAAAGCATAATTGTGTACACAGAGAGGATGTGATTGTAACCTGCTCAGGTGATGCA						
WCI	TTCCCCGGGGCTGGGGGAGCACAACCTGCAGACACAAGCAGGACGCGGGGTCTCTGCTCAG--AGTTC-						
	1370	1380	1390	1400	1410	1420	1430

	1740	1750	1760	1770	1780	1790	1800
Hum	ACATGGGGCCTGAGGCTGGTGGGCGGCAGCAACCGCTGCTCGGGAAGACTGGAGGTGTACTTTCAAGGAC						
WCI	-CT--GGCCCTCAGGATGGTGAAGTGAAGACAGCAGTGTGCTGGGTGGCTGGAAGTTTTCTACAATGGGA						
	1440	1450	1460	1470	1480	1490	1500

Fig. 2L

	1810	1820	1830	1840	1850	1860	1870
Hum	GGTGGGGCACAGTGTGTGATGACGGCTGGAACAGTAAAGCTGCAGCTGTGGTGTGTAGCCAGCTGGACTG						
WCI	CCTGGGGCAGTGTCTGCCGTAACCCCATGGAAGACATCACTGTGTCCACGATCTGCAGACAGCTTGGCTG						
	1510	1520	1530	1540	1550	1560	1570
	1880	1890	1900	1910	1920	1930	1940
Hum	CCCATCTTCTATCATTGGCATGGGTCTG-GGAAACGCTTCTA-CAGGATATGGAAAAATTTGGCTCGATG						
WCI	T--GGGGACAGTGGAAACCCTCAACTCTTCTGTGCTCTTAGAGAAGGTTTTAGGCCACAGTGGGTGGAT-						
	1580	1590	1600	1610	1620	1630	
	1950	1960	1970	1980	1990	2000	2010
Hum	ATGTTTCCTGTGATGGAGATGAGTCAGATCTCTGGTCATGCAGGAACAGTGGGTG--GGGAAATAATGAC						
WCI	-AGAATCCAGTGTCTGGAAACTGACACCTCTCT--CTGGCAGTGTCTTCTGACCCCTTGAATTACAAC						
	1640	1650	1660	1670	1680	1690	1700
	2020	2030	2040	2050	2060	2070	2080
Hum	TGCAGTCACAGTGAAGATGTTGGAGTG-ATCTGTTCTGATG-CATCGGATATGGAGCTGAGGCTTGTGGG						
WCI	T-CATGCTCTCCAAAGGAGGAAGCCTATATCTGGTGTGCAGACAGCAGACA--GATCCGC--CTGGTGGG						
	1710	1720	1730	1740	1750	1760	
	2090	2100	2110	2120	2130	2140	2150
Hum	TGGAAGCAGCAGGTGTGCTGGAAAAGTTGAGGTGAATGTCCAGGGTGCCGTGGGAATTCTGTGTGCTAAT						
WCI	TGGAGGTGGTGCCTGCTCTGGGAGAGTGGAGATCCTTGACCAGGGCTCCTGGGGCACCATCTGTGATGAC						
	1770	1780	1790	1800	1810	1820	1830
	2160	2170	2180	2190	2200	2210	2220
Hum	GGCTGGGGAATGAACATTGCTGAAGTTGTTTGACGGCAACTTGAATGTGGGTCTGCAATCAGGGTCTCCA						
WCI	CGCTGGGACCTGGACGATGCCCCGTGTGGTGTGCAAGCAGCTGGGCTGTGGAGAAGC---CCTGGACGCCA						
	1840	1850	1860	1870	1880	1890	1900
	2230	2240	2250	2260	2270	2280	
Hum	GAGA-GCCTCATTTACAGAA--AGAACATTACACATCTTAATGTGCAATTCTGGCTGCACTGGAGGGGA						
WCI	CTGTCTCTTCCTTCTTCGGGACGGGATCAGGGCCCATCTGGCTGGATGAAGTGAAGTGCAGAGGAGAGGA						
	1910	1920	1930	1940	1950	1960	1970
	2290	2300	2310	2320	2330	2340	2350
Hum	AGCCTCTCTCTGGGATTGTATACGATGGGAGTGGAAACAG-ACTGCGTGTCAATTTAAATATGGAAGCAAG						
WCI	GTCCCAAGTATGGAGGTGCCCTTCTGGGGATGGCGGCAACACAAC-TGCAATCATCAAGAAGATGCAGG						
	1980	1990	2000	2010	2020	2030	2040
	2360	2370	2380	2390	2400	2410	2420
Hum	TTTGATCTGCTCAGCCACAGGCAGCCAGGCTGGTTGGAGCTGATATGCCCTGCTCTGGACGTGTTGAA						
WCI	AGTCATCTGCTCAGGATTTGTGC-----GTCTGGCTGGAGGAGATGGACCCTGCTCAGGGCGAGTAGAA						
	2050	2060	2070	2080	2090	2100	

Fig. 2M

	2430	2440	2450	2460	2470	2480	2490
Hum	GTGAAACATGCAGACACATGGCGCTCTGTCTGTGATTCTGATTTCTCTCTTCATGCTGCCAATGT--GCT						
WCI	GTGCATTCTGGAGAAGCCTGGACCCAGTGTCTGATGGAACTTCACACTCCCCACTGCCCAGGTCACTCT						
	2110	2120	2130	2140	2150	2160	2170
	2500	2510	2520	2530	2540	2550	2560
Hum	GTGCAGAGAATTAAATTGTGGAGATGCCATATCTCTTTCTGTGGGAGATCACTTTGGAAAAGGG-AATGG						
WCI	GTGCAGAGC--TGGGATGTGGCAAGGCTGTGTCT-GTCCTGGGACACATGCCATTGAGAGAGTCCGATGG						
	2180	2190	2200	2210	2220	2230	2240
	2570	2580	2590	2600	2610	2620	2630
Hum	TCTAACTTGGGCGGAAAAGTTCCAGTGTGAAGGGAGTGAACTCACCTTGCAATTATGCCCCATTGTTCAA						
WCI	CCAGGTCTGGGCTGAAGAGTTCCAGGTGTGATGGGGGGGAGCCTGAGCTCTGGTCTGCCCCAGAGTGCCC						
	2250	2260	2270	2280	2290	2300	2310
	2640	2650	2660	2670	2680	2690	2700
Hum	CATCCGGAAGACACTTGTATCCACAGCAGAGAAGTTGGAGTTGTCTGTTCCCGATATACAGATGTCCGAC						
WCI	TGTCCAGGAGGCACATGTCTCCACAGTGGAGCTGCTCAGGTTGTCTGTTTCAGTGTACACAGAAGTCCAGC						
	2320	2330	2340	2350	2360	2370	2380
	2710	2720	2730	2740	2750	2760	2770
Hum	TTGTGAATGGCAAATCC---CAGTGTGACGGGCAAGTGGAGATCAACGTGCT-TGGACACTGGGGCTCAC						
WCI	TTATGAAAAACGGCACCTCTCAATGTGAGGGGCAGGTGGAGAT-GAAGATCTCTGGACGATGGAGAGCGC						
	2390	2400	2410	2420	2430	2440	2450
	2780	2790	2800	2810	2820	2830	2840
Hum	TGTGTGACACCCACTGGGACCCAGAAGATGCCCGTGTCTATGCAGACAGCTCAGCTGTGGGACTGCTCT						
WCI	TCTGTGCCTCCCACTGGAGTCTGGCCAATGCCAATGTTGTCTGTCTGTCGTCAGCTCGGCTGTGGAGTCGCCAT						
	2460	2470	2480	2490	2500	2510	2520
	2850	2860	2870	2880	2890	2900	2910
Hum	CTCAACCACAGGAGGAAAATATATTGGAGAAAGAAGTGTTCGTGTGTGGGGACACAGGTTTCATTGCTTA						
WCI	CTCCACCCCCAGAGGACCACACTTGGTGGAAAGGAGGTGATCAGATCTCAACAGCCCAATTTCACTGCTCA						
	2530	2540	2550	2560	2570	2580	2590
	2920	2930	2940	2950	2960	2970	2980
Hum	GGGAATGAGTCACTTCTGGATAACTGTCAAATGACAGTTCTTGGAGCACCTCCCTGTATCCATGGAAATA						
WCI	GGGGCTGAGTCCTTCTGTGGAGTTGTCTGTGACTGCCTTGGGTGGGCCTGACTGTTCCCATGGCAACA						
	2600	2610	2620	2630	2640	2650	2660
	2990	3000	3010	3020	3030	3040	3050
Hum	CTGTCTCTGTGATCTGCACAGGAAGCCTGACCCAGCCACTGTTTCCATGCCTCGCAAATGTATCTGACCC						
WCI	CAGCCTCTGTGATCTGCTCAGGAAACCACACCCAGGTGCTGCCCCAGTGCAACGACTTCCTGTCTCAACC						
	2670	2680	2690	2700	2710	2720	2730

Fig. 2N

	3060	3070	3080	3090	3100	3110	3120
Hum	ATATTTGTCTGCAGTTCCAGAGGGCAGTGCCTTTGATCTGCTTAGAGGACAAACGGCTCCGCCTAGTGGAT						
WCI	TGCAGGCTCTGCGGCCTCAGAGGAGAGTTCTCCCTACTGCTCAGACAGCAGGCAGCTCCGCCTGGTGGAC						
	2740	2750	2760	2770	2780	2790	2800
	3130	3140	3150	3160	3170	3180	3190
Hum	GGGGACAGCCGCTGTGCCGGGAGAGTAGAGATCTATCACGACGGCTTCTGGGGCACCATCTGTGATGACG						
WCI	GGGGGCGGTCCCTGCGGCGGGAGAGTGGAGATCCTTGACCAGGGCTCCTGGGGCACCATCTGTGATGATG						
	2810	2820	2830	2840	2850	2860	2870
	3200	3210	3220	3230	3240	3250	3260
Hum	GCTGGGACCTGAGCGATGCCACGCTGGTGTGTCAAAAGCTGGGCTGTGGAGTGGCCTTCAATGCCACGGT						
WCI	ACTGGGACCTGGACGATGCCCGTGTGGTGTGCAGGCAGCTGGGCTGTGGAGAAGCCCTCAATGCCACGGG						
	2880	2890	2900	2910	2920	2930	2940
	3270	3280	3290	3300	3310	3320	3330
Hum	CTCTGCTCACTTTGGGGAGGGGTGAGGGCCCATCTGGCTGGATGACCTGAAGTGCACAGGAACGGAGTCC						
WCI	GTCTGCTCACTTCGGGGCAGGATCAGGGCCCATCTGGCTGGACGACCTGAAGTGCACAGGAAGGAGTCC						
	2950	2960	2970	2980	2990	3000	3010
	3340	3350	3360	3370	3380	3390	3400
Hum	CACTTGTGGCAGTGCCCTTCCCGCGGCTGGGGGCAGCAGACTGCAGGCACAAGGAGGACGCAGGGGTCA						
WCI	CACGTGTGGAGGTGCCCTTCCCGGGGCTGGGGGCAGCAGACTGCAGACACAAGGAGGACGCCGGGGTCA						
	3020	3030	3040	3050	3060	3070	3080
	3410	3420	3430	3440	3450	3460	3470
Hum	TCTGCTCAGAATTCACAGCCTTGAGGCTCTACAGTGAAACTGAAACAGAGAGCTGTGCTGGGAGATTGGA						
WCI	TCTGCTCAGAGTTCCTGGCCCTCAGGAT---GGTGAG-CGAGGACCAGCAG-TGTGCTGGGTGGCTGGA						
	3090	3100	3110	3120	3130	3140	
	3480	3490	3500	3510	3520	3530	3540
Hum	AGTCTTCTATAACGGGACCTGGGGCAGCGTCGGCAGGAGGAACATCACCACAGCCATAGCAGGCATTGTG						
WCI	GGTTTTCTACAACGGGACCTGGGGCAGTGTCTGCCGAGCCCCATGGAAGATATCACTGTGTCCGTGATC						
	3150	3160	3170	3180	3190	3200	3210
	3550	3560	3570	3580	3590	3600	
Hum	TGCAGGCAGCTGGGCTGTGGGGAGAATGGAGTTGTGAGCCTCGCCCCCTTA--TCT-AAGACAGGCTCTG						
WCI	TGCAGACAGCTTGGATGTGGGGACAGTGA--AGTCT-CAACACCTCTGTTGGTCTCAGGGAAGGTTCTA						
	3220	3230	3240	3250	3260	3270	3280
	3610	3620	3630	3640	3650	3660	3670
Hum	GTTTCATGTGGGTGGATGACATTCAAGTGTCTTAAACGCATATCTCCATATGGCAGTGCCTGTCTGCCCC						
WCI	GACCCCGGTGGGTAGATTTAATTCAGTGTGCGAAATGGATACCTCTCTCTGGCAGTGTCTTCTGGCCC						
	3290	3300	3310	3320	3330	3340	3350

Fig. 20

```

3680      3690      3700      3710      3720      3730      3740
Hum  ATGGGAGCGAAGAATCTCCAGCCCAGCAGAAGAGACCTGGATCACATGTGAAGATAGAATA----AGAG-
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  ATGGAAATACAGTTTCATGCTCTCCAAAGGAGGAAGCCTACATCTCATGTGAAGGAAGAAGACCCAAGAGC
      3360      3370      3380      3390      3400      3410      3420

      3750      3760
Hum  -----TGC-----GTGGAGGAGACACCGAGTGCTCTG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  TGTCCAACCTGCTGCCGCCTGCACAGACAGAGAGAAGCTCCGCCTCAGGGGAGGAGACAGCGAGTGCTCAG
      3430      3440      3450      3460      3470      3480      3490

3770      3780      3790      3800      3810      3820      3830
Hum  GGAGAGTGGAGATCTGGCACGCAGGCTCCTGGGGGCACAGTGTGTGATGACTCCTGGGACCTGGCCGAGGC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  GCGGGGTGGAGGTGTGGCACAACGGCTCCTGGGGGCACCGTGTGCGATGACTCCTGGAGCCTGGCAGAGGC
      3500      3510      3520      3530      3540      3550      3560

3840      3850      3860      3870      3880      3890      3900
Hum  GGAAGTGGTGTGTTCAGCAGCTGGGCTGTGGCTCTGCTCTGGCTGCCCTGAGGGACGCTTCGTTTGGCCAG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  TGAGGTGGTGTGTTCAGCAGCTGGGCTGTGGCCAGGCCCTGGAAGCCGTGCGGTCTGCAGCATTTGGCCCT
      3570      3580      3590      3600      3610      3620      3630

3910      3920      3930      3940      3950      3960      3970
Hum  GGAACCTGGAACCATCTGGTTGGATGACATGCGGTGCAAAGGAAATGAGTCATTTCTATGGGACTGTACAG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  GGAATGGGAGCATCTGGCTGGACGAGGTGCAGTGCAGGGGGCCGGGAGTCTCCCTGTGGGACTGTGTTG
      3640      3650      3660      3670      3680      3690      3700

3980      3990      4000      4010      4020      4030      4040
Hum  CCAAACCCTGGGGACAGAGTGACTGTGGACACAAGGAAGATGCTGGCGTGAGGTGCTCTGG---ACAGTC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  CGGAGCCCTGGGGGCAGAGCGACTGCAAGCACGAGGAGGATGCTGGTGTGAGGTGCTCTGGTGTAAAGAC
      3710      3720      3730      3740      3750      3760      3770

      4050      4060      4070      4080      4090
Hum  G-----CTGAAATCACTGAATG--CCT-----CCTCAGGT-CATT---TAGCA-CTTATTTTATCCA
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  AACATTGCCCACGACCACAGCAGGGACCAGAACAACCTCAAATTCTCTCCCTGGCATCTTCTCCCTGCCT
      3780      3790      3800      3810      3820      3830      3840

      4100      4110      4120      4130      4140
Hum  G-----TATCTT---TGGGCTC-CTTCTC---CTGGTTCT-----GTTTATTCTATTTCTCA
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  GGGGTTCTCTGCCTTATCCTGGGGTCGCTTCTCTTCTCCTGGTCCTCGTCATCCTGGTGACTCAGCTACTCA
      3850      3860      3870      3880      3890      3900      3910

      4150      4160      4170      4180
Hum  CGTGGTG---CCGAGTTCAGAAACAAAACATCT-----GCCC---CT---CAGAGTTT-----
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
WCI  GATGGAGAGCAGAGCGCAGAGCCTTATCCAGCTATGAAGATGCTCTTGCTGAAGCTGTGTATGAGGAGCT
      3920      3930      3940      3950      3960      3970      3980

```

Fig. 2P

Fig. 2Q

GTCGACCCACGCGTCCGGTCTGTGGCTGAGC																			M	A	L	P	A	L	G	L	D	P	W	S		12
ATG GCC CTC CCA GCC CTG GGC CTG GAC CCC TGG AGC																																67
L	L	G	L	F	L	F	Q	L	L	Q	L	L	L	P	T	T	T	A	G		32											
CTC	CTG	GGC	CTT	TTC	CTC	TTC	CAA	CTG	CTT	CAG	CTG	CTG	CTG	CCG	ACG	ACG	ACC	GCG	GGG		127											
G	G	G	Q	G	P	M	P	R	V	R	Y	Y	A	G	D	E	R	R	A		52											
GGA	GGC	GGG	CAG	GGG	CCC	ATG	CCC	AGG	GTC	AGA	TAC	TAT	GCA	GGG	GAT	GAA	CGT	AGG	GCA		187											
L	S	F	F	H	Q	K	G	L	Q	D	F	D	T	L	L	L	S	G	D		72											
CTT	AGC	TTC	TTC	CAC	CAG	AAG	GGC	CTC	CAG	GAT	TTT	GAC	ACT	CTG	CTC	CTG	AGT	GGT	GAT		247											
G	N	T	L	Y	V	G	A	R	E	A	I	L	A	L	D	I	Q	D	P		92											
GGA	AAT	ACT	CTC	TAC	GTG	GGG	GCT	CGA	GAA	GCC	ATT	CTG	GCC	TTG	GAT	ATC	CAG	GAT	CCA		307											
G	V	P	R	L	K	N	M	I	P	W	P	A	S	D	R	K	K	S	E		112											
GGG	GTC	CCC	AGG	CTA	AAG	AAC	ATG	ATA	CCG	TGG	CCA	GCC	AGT	GAC	AGA	AAA	AAG	AGT	GAA		367											
C	A	F	K	K	K	S	N	E	T	Q	C	F	N	F	I	R	V	L	V		132											
TGT	GCC	TTT	AAG	AAG	AAG	AGC	AAT	GAG	ACA	CAG	TGT	TTC	AAC	TTC	ATC	CGT	GTC	CTG	GTT		427											
S	Y	N	V	T	H	L	Y	T	C	G	T	F	A	F	S	P	A	C	T		152											
TCT	TAC	AAT	GTC	ACC	CAT	CTC	TAC	ACC	TGC	GGC	ACC	TTC	GCC	TTC	AGC	CCT	GCT	TGT	ACC		487											
F	I	E	L	Q	D	S	Y	L	L	P	I	S	E	D	K	V	M	E	G		172											
TTE	ATT	GAA	CTT	CAA	GAT	TCC	TAC	CTG	TTG	CCC	ATC	TCG	GAG	GAC	AAG	GTC	ATG	GAG	GGA		547											
K	G	Q	S	P	F	D	P	A	H	K	H	T	A	V	L	V	D	G	M		192											
AAA	GGC	CAA	AGC	CCC	TTT	GAC	CCC	GCT	CAC	AAG	CAT	ACG	GCT	GTC	TTG	GTG	GAT	GGG	ATG		607											
H	Y	S	G	T	M	N	N	F	L	G	S	E	P	I	L	M	R	T	L		212											
CTC	TAT	TCT	GGT	ACT	ATG	AAC	AAC	TTC	CTG	GGC	AGT	GAG	CCC	ATC	CTG	ATG	CGC	ACA	CTG		667											
G	S	Q	P	V	L	K	T	D	N	F	L	R	W	L	H	H	D	A	S		232											
GGA	TCC	CAG	CCT	GTC	CTC	AAG	ACC	GAC	AAC	TTC	CTC	CGC	TGG	CTG	CAT	CAT	GAC	GCC	TCC		727											
F	V	A	A	I	P	S	T	Q	V	V	Y	F	F	F	E	E	T	A	S		252											
TTT	GTG	GCA	GCC	ATC	CCT	TCG	ACC	CAG	GTC	GTC	TAC	TTC	TTC	TTC	GAG	GAG	ACA	GCC	AGC		787											
E	F	D	F	F	E	R	L	H	T	S	R	V	A	R	V	C	K	N	D		272											
GAG	TTT	GAC	TTC	TTT	GAG	AGG	CTC	CAC	ACA	TCG	CGG	GTG	GCT	AGA	GTC	TGC	AAG	AAT	GAC		847											
V	G	G	E	K	L	L	Q	K	K	W	T	T	F	L	K	A	Q	L	L		292											
GTG	GGC	GGC	GAA	AAG	CTG	CTG	CAG	AAG	AAG	TGG	ACC	ACC	TTC	CTG	AAG	GCC	CAG	CTG	CTC		907											
C	T	Q	P	G	Q	L	P	F	N	V	I	R	H	A	V	L	L	P	A		312											
TGC	ACC	CAG	CCG	GGG	CAG	CTG	CCC	TTC	AAC	GTC	ATC	CGC	CAC	GCG	GTC	CTG	CTC	CCC	GCC													

K	Y	K	E	L	N	K	E	T	S	R	W	T	T	Y	R	G	P	E	T	372
AAA	TAC	AAA	GAG	TTG	AAC	AAA	GAA	ACT	TCA	CGC	TGG	ACT	ACT	TAT	AGG	GGC	CCT	GAG	ACC	1147
N	P	R	P	G	S	C	S	V	G	P	S	S	D	K	A	L	T	F	M	392
AAC	CCC	CGG	CCA	GGC	AGT	TGC	TCA	GTG	GGC	CCC	TCC	TCT	GAT	AAG	GCC	CTG	ACC	TTC	ATG	1207
K	D	H	F	L	M	D	E	Q	V	V	G	T	P	L	L	V	K	S	G	412
AAG	GAC	CAT	TTC	CTG	ATG	GAT	GAG	CAA	GTG	GTG	GGG	ACG	CCC	CTG	CTG	GTG	AAA	TCT	GGC	1267
V	E	Y	T	R	L	A	V	E	T	A	Q	G	L	D	G	H	S	H	L	432
GTG	GAG	TAT	ACA	CGG	CTT	GCA	GTG	GAG	ACA	GCC	CAG	GGC	CTT	GAT	GGG	CAC	AGC	CAT	CTT	1327
V	M	Y	L	G	T	T	T	G	S	L	H	K	A	V	V	S	G	D	S	452
GTC	ATG	TAC	CTG	GGA	ACC	ACC	ACA	GGG	TCG	CTC	CAC	AAG	GCT	GTG	GTA	AGT	GGG	GAC	AGC	1387
S	A	H	L	V	E	E	I	Q	L	F	P	D	P	E	P	V	R	N	L	472
AGT	GCT	CAT	CTG	GTG	GAA	GAG	ATT	CAG	CTG	TTC	CCT	GAC	CCT	GAA	CCT	GTT	CGC	AAC	CTG	1447
Q	L	A	P	T	Q	G	A	V	F	V	G	F	S	G	G	V	W	R	V	492
CAG	CTG	GCC	CCC	ACC	CAG	GGT	GCA	GTG	TTT	GTA	GGC	TTC	TCA	GGA	GGT	GTC	TGG	AGG	GTG	1507
P	R	A	N	C	S	V	Y	E	S	C	V	D	C	V	L	A	R	D	P	512
CCC	CGA	GCC	AAC	TGT	AGT	GTC	TAT	GAG	AGC	TGT	GTG	GAC	TGT	GTC	CTT	GCC	CGG	GAC	CCC	1567
H	C	A	W	D	P	E	S	R	T	C	C	L	L	S	A	P	N	L	N	532
CAG	TGT	GCC	TGG	GAC	CCT	GAG	TCC	CGA	ACC	TGT	TGC	CTC	CTG	TCT	GCC	CCC	AAC	CTG	AAC	1627
S	W	K	Q	D	M	E	R	G	N	P	E	W	A	C	A	S	G	P	M	552
TCC	TGG	AAG	CAG	GAC	ATG	GAG	CGG	GGG	AAC	CCA	GAG	TGG	GCA	TGT	GCC	AGT	GGC	CCC	ATG	1687
S	R	S	L	R	P	Q	S	R	P	Q	I	I	K	E	V	L	A	V	P	572
AGC	AGG	AGC	CTT	CGG	CCT	CAG	AGC	CGC	CCG	CAA	ATC	ATT	AAA	GAA	GTC	CTG	GCT	GTC	CCC	1747
N	S	I	L	E	L	P	C	P	H	L	S	A	L	A	S	Y	Y	W	S	592
AAC	TCC	ATC	CTG	GAG	CTC	CCC	TGC	CCC	CAC	CTG	TCA	GCC	TTG	GCC	TCT	TAT	TAT	TGG	AGT	1807
H	G	P	A	A	V	P	E	A	S	S	T	V	Y	N	G	S	L	L	L	612
CAT	GGC	CCA	GCA	GCA	GTC	CCA	GAA	GCC	TCT	TCC	ACT	GTC	TAC	AAT	GGC	TCC	CTC	TTG	CTG	1867
I	V	Q	D	G	V	G	G	L	Y	Q	C	W	A	T	E	N	G	F	S	632
ATA	GTG	CAG	GAT	GGA	GTT	GGG	GGT	CTC	TAC	CAG	TGC	TGG	GCA	ACT	GAG	AAT	GGC	TTT	TCA	1927
Y	P	V	I	S	Y	W	V	D	S	Q	D	Q	T	L	A	L	D	P	E	652
TAC	CCT	GTG	ATC	TCC	TAC	TGG	GTG	GAC	AGC	CAG	GAC	CAG	ACC	CTG	GCC	CTG	GAT	CCT	GAA	1987
L	A	G	I	P	R	E	H	V	K	V	P	L	T	R	V	S	G	G	A	672
CTG	GCA	GGC	ATC	CCC	CGG	GAG	CAT	GTG	AAG	GTC	CCG	TTG	ACC	AGG	GTC	AGT	GGT	GGG	GCC	2047
A	L	A	A	Q	Q	S	Y	W	P	H	F	V	T	V	T	V	L	F	A	692
GCC	CTG	GCT	GCC	CAG	CAG	TCC	TAC	TGG	CCC	CAC	TTT	GTC	ACT	GTC	ACT	GTC	CTC	TTT	GCC	2107
L	V	L	S	G	A	L	I	I	L	V	A	S	P	L	R	A	L	R	A	712
TTA	GTG	CTT	TCA	GGA	GCC	CTC	ATC	ATC	CTC	GTG	GCC	TCC	CCA	TTG	AGA	GCA	CTC	CGG	GCT	2167
R	G	K	V	Q	G	C	E	T	L	R	P	G	E	K	A	P	L	S	R	732
CGG	GGC	AAG	GTT	CAG	GGC	TGT	GAG	ACC	CTG	CGC	CCT	GGG	GAG	AAG	GCC	CCG	TTA	AGC	AGA	2227

27/53

[illegible]

Fig. 3D

	10	20	30	40	50	60	70
Hum.	MALPALGLDPWSLLGLFLFQLLQLLPTTTAGGGGQGPMPRVRYAGDERRALSFFHQKGLQDFDTLLLS						
Mur.	MALPSLGQDSWSLLRVFFQFLFLPSLPPASGTGGQGPMPRVKYHAGDGHRLSFFQQKGLRDFDTLLLS						
	10	20	30	40	50	60	70
	80	90	100	110	120	130	140
Hum.	GDGNTLYVGAREAILALDIQDPGVPRCLKMIPWPASDRKKSECAFKKKSNETQCFNFIRVLVSYNVTHLY						
Mur.	DDGNTLYVGARETVLALNIQNPPIPRLKNMIPWPASERKKTECAFKKKSNETQCFNFIRVLVSYNATHLY						
	80	90	100	110	120	130	140
	150	160	170	180	190	200	210
Hum.	TCGTFAFSPACTFIELQDSYLLPISEDKVMEGKGQSPFDPAHKHTAVLVDGMLYSGTMNIFLGSEPIILMR						
Mur.	ACGTFAFSPACTFIELQDSLLLPILIDKVMGKGQSPLTFTSTQAVLVDGMLYSGTMNIFLGSEPIILMR						
	150	160	170	180	190	200	210
	220	230	240	250	260	270	280
Hum.	TLGSQPVLKTDNFLRWLHHDASFVAAIPTQVVYFFFEETASEFDFFERLHTSRVARVCNKNDVGGEKLLQ						
Mur.	TLGSHPVLTDFLRLHADASFVAAIPTQVVYFFFEETASEFDFFEELYISRAQVCNKNDVGGEKLLQ						
	220	230	240	250	260	270	280
	290	300	310	320	330	340	350
Hum.	KKWTTFLKAQLLCTQPGQLPFNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVF						
Mur.	KKWTTFLKAQLLCAQPGQLPFNIIRHAVLLPADSPSVSRIYAVFTSQWQVGGTRSSAVCAFSLLDIERVF						
	290	300	310	320	330	340	350
	360	370	380	390	400	410	420
Hum.	KGKYKELNKETSRWTTYRGPETNPRPGSCSVGPSSDKALTFMKDHFMDQVVGTPLLVKSGVEYTRLAV						
Mur.	KGKYKELNKETSRWTTYRGSEVSPRPGSCSMGPSSDKALTFMKDHFMDQVVGTPLLVKSGVEYTRLAV						
	360	370	380	390	400	410	420
	430	440	450	460	470	480	490
Hum.	ETAQGLDGHSHLVMYLGTTTGSLHKAVVSGDSSAHLVEEIQLPDPEPVRNLQLAPTQGAVFVGFSGGVW						
Mur.	ESARGLDGSSHVMYLGSTGSLHKAVVPQDSSAYLVEEIQSPDSEPVRNLQLAPAQGAVFAGFSGGIW						
	430	440	450	460	470	480	490
	500	510	520	530	540	550	560
Hum.	RVPRANC SVYESCVDCVLARDPHCAWDPESTRCCLLSAPNLNSWKQDMERGNPEWACASGPMRSRLRQS						
Mur.	RVPRANC SVYESCVDCVLARDPHCAWDPESTRCLSLSGST-KPWKQDMERGNPEWVCTRGPMPARSRRQS						
	500	510	520	530	540	550	
	570	580	590	600	610	620	630
Hum.	RPQIIKEVLAVPNSILELPCPHLSALASYWWSHGPAAVPEASSTVYNGSLLLVQDGVGGLYQCWATENG						
Mur.	PPQLIKEVLTVPNSILELRCPHLSALASYHWSHGRAKISEASATVYNGSLLLPQDGVGGLYQCVATENG						
	560	570	580	590	600	610	620
	640	650	660	670	680	690	700
Hum.	FSYPVISYWVDSQDQTLALDPELAGIPREHVKVLTRVSGGAALAAQSYWPHFVTVTVLFAVLVSGALI						
Mur.	YSYPVVS YWVDSQDQPLALDPELAGVPRERQVPLTRVGGGASMAAQRSYWPHFLIVTVLLAIVLLGVLT						
	630	640	650	660	670	680	690
	710	720	730	740	750	760	
Hum.	ILVASPLRALRARGKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVA						
Mur.	LLLASPLGALRARGKVQCGMLPPEKAPLSRDQHLQPSKDHRTSASDVDADNNHLGAEVA						
	700	710	720	730	740	750	760

Fig. 3E

Hum. GTCG-AC-CC-----ACG-----CGTCCGGT-----CTGTGGCTGAGCATGGC
 Mur. CTCGGACGCCTGGGTTAGGGGTCTGTACTGCTGGGGAACCATCTGGTGACCATCTCAGGCTGACCATGGC
 10 20 30 40 50 60 70

Hum. CCTCCCAGCCCTGGGCTGGACCCCTGGAGCCTCCTGGGCCTTTTCCTCTTCCAAGTGTTC-AGCTGCT
 Mur. CCTACCATCCCTGGGCCAGGACTCATGGAGTCTCCTGCGTGTTCCTTCTTCCAAGT-CTTCCTGCTGCC
 80 90 100 110 120 130

Hum. GCTGCCGACGACGACCGCGGGGGAGGCGGGCAGGGGCCATGCCAGGGTCAGATACTATGCAGGGGAT
 Mur. ATCACTGCCACCTGCTTCTGGGACTGGTGGTCAGGGGCCATGCCAGAGTCAAATACCATGCTGGAGAC
 140 150 160 170 180 190 200

Hum. GAACGTAGGGCACTTAGCTTCTTCCACCAGAAGGGCCTCCAGGATTTTGACACTCTGCTCCTGAGTGGTG
 Mur. GGGCACAGGGCCCTCAGCTTCTTCCAACAAAAGGCCCTCCGAGACTTTGACACGCTGCTCCTGAGTGACG
 210 220 230 240 250 260 270

Hum. ATGGAATACTCTCTACGTGGGGGCTCGAGAAGCCATTCTGGCCTTGGATATCCAGGATCCAGGGGTCCC
 Mur. ATGGCAACTCTCTATGTGGGGGCTCGAGAGACCGTCTTGGCCTTGAATATCCAGAACCAGGAATCCC
 280 290 300 310 320 330 340

Hum. CAGGCTAAAGAACATGATACCGTGGCCAGCCAGTGACAGAAAAAGAGTGAATGTGCCTTTAAGAAGAAG
 Mur. AAGGCTAAAGAACATGATACCGTGGCCAGCCAGTGAGAGAAAAAGACCGAATGTGCCTTTAAGAAGAAG
 350 360 370 380 390 400 410

Hum. AGCAATGAGACACAGTGTTCAACTTCATCCGTGTCTGGTTCCTTACAATGTCAACCATCTCTACACCT
 Mur. AGCAATGAGACACAGTGTTCAACTTCATTCGAGTCTGTCTTACAATGCTACTCAGCTCTATGCCT
 420 430 440 450 460 470 480

Hum. GCGGCACCTTCGCCTTCAGCCCTGCTTGTACCTTCATTGAACCTCAAGATTCCTACCTGTGCCCATCTC
 Mur. GTGGGACCTTTGCCTTCAGCCCTGCTTGTACCTTCATTGAACCTCAAGATTCCTCCTGTGCCCATCTT
 490 500 510 520 530 540 550

Hum. GGAGGACAAGGTCATGGAGGGAAGGCCAAAGCCCTTTGACCCGCTCACAAGCATACG-GCTGTCTT
 Mur. GATAGACAAGGTCATGGACGGGAAGGCCAAAGCCC-TTTGACCCTGTTCAAGACACAAAGCTGTCTT
 560 570 580 590 600 610 620

Hum. GGTGGATGGGATGCTCTATTCTGGTACTATGAACAACTTCCTGGGCAGTGAGCCCATCCTGATGCGCACA
 Mur. GGTGATGGGATGCTTTATTCCGGCACCATGAACAACTTCCTGGGCAGTGAGCCCATCCTGATGCGGACA
 630 640 650 660 670 680 690

Hum. CTGGGATCCCAGCCTGTCTCAAGACCGACAACCTTCCTCCGCTGGCTGCATCATGACGCCTCCTTTGTGG
 Mur. CTGGGATCCCATCCTGTTCTCAAGACTGACATCTTCTTACGCTGGCTGCACGCGGATGCCTCCTTCGTGG
 700 710 720 730 740 750 760

Hum. 740 750 760 770 780 790 800
CAGCCATCCCTTCGACCCAGGTCGTCTACTTCTTCTTCGAGGAGACAGCCAGCGAGTTTGACTTCTTTGA
Mur. 770 780 790 800 810 820 830
CAGCCATCCATCCACCCAGGTCGTCTATTCTTCTTTCGAGGAGACAGCCAGCGAGTTTGACTTCTTTGA

Hum. 810 820 830 840 850 860 870
GAGGCTCCACATCGCGGGTGGCTAGAGTCTGCAAGAATGACGTGGGCGGCGAAAAGCTGCTGCAGAAG
Mur. 840 850 860 870 880 890 900
AGAGCTGTATATATCCAGGGTGGCTCAAGTCTGCAAGAACGACGTGGGCGGTGAAAAGCTGCTGCAGAAG

Hum. 880 890 900 910 920 930 940
AAGTGGACCACCTTCTCTGAAGGCCAGCTGCTCTGCACCCAGCCGGGCGAGCTGCCCTTCAACGTCATCC
Mur. 910 920 930 940 950 960 970
AAGTGGACCACCTTCTCTCAAAGGCCAGTTGCTCTGCGCTCAGCCAGGGCAGCTGCCATTCAACATCATCC

Hum. 950 960 970 980 990 1000 1010
GCCACGCGGTCTGCTCCCGCCGATTCTCCACAGCTCCCCACATCTACGCAGTCTTCACTCCCACTG
Mur. 980 990 1000 1010 1020 1030 1040
GCCACGCGGTCTGCTGCGCCGCGATTCTCCCTCTGTTTCCCGCATCTACGCAGTCTTTACCTCCCACTG

Hum. 1020 1030 1040 1050 1060 1070 1080
GCAGGTTGGCGGGACCCAGGAGCTCTGCGGTTTGTGCCTTCTCTCTTGGACATTGAACGTGTCTTTAAG
Mur. 1050 1060 1070 1080 1090 1100 1110
GCAGGTTGGCGGGACCCAGGAGCTCAGCAGTCTGTGCCTTCTCTCTCACGACATTGAGCGAGTCTTTAAA

Hum. 1090 1100 1110 1120 1130 1140 1150
GGGAAATACAAAGAGTTGAACAAAGAACTTCACGCTGGACTACTTATAGGGGCCCTGAGACCAACCCCC
Mur. 1120 1130 1140 1150 1160 1170 1180
GGGAAGTACAAGGAGCTGAACAAGGAGACCTCCCGCTGGACCACTTACCAGGGCTCAGAGGTGAGCCCGA

Hum. 1160 1170 1180 1190 1200 1210 1220
GGCCAGGCAGTTGCTCAGTGGGCCCCCTCTCTGATAAGGCCCTGACCTTCATGAAGGACCATTTCTGTAT
Mur. 1190 1200 1210 1220 1230 1240 1250
GGCCAGGCAGTTGCTCCATGGGCCCCCTCTCTGACAAAGCCTTGACCTTCATGAAGGACCATTTCTGTAT

Hum. 1230 1240 1250 1260 1270 1280 1290
GGATGAGCAAGTGGTGGGGACGCCCCCTGCTGGTGAATCTGGCGTGGAGTATACACGGCTTCAGTGGAG
Mur. 1260 1270 1280 1290 1300 1310 1320
GGATGAGCAGCTGGTAGGAACACCCCTGCTGGTGAAGTCTGGTGTGGAGTACACACGGCTTCAGTGGAG

Hum. 1300 1310 1320 1330 1340 1350 1360
ACAGCCAGGGCCTTGATGGGCACAGCCATCTTGTCATGTACCTGGGAACCACCACAGGGTGCCTCCACA
Mur. 1330 1340 1350 1360 1370 1380 1390
TCAGCTCGGGCCTTGATGGGAGCAGCCATGTGGTCATGTATCTGGGTACCTCCACGGGTCCCTGCACA

Hum. 1370 1380 1390 1400 1410 1420 1430
AGGCTGTGGTAAGTGGGGACAGCAGTGTCTATCTGGTGGAGAGATTACAGTGTTCCTGACCTGAACC
Mur. 1400 1410 1420 1430 1440 1450 1460
AGGCTGTGGTGCCTCAGGACAGCAGTGTCTATCTCGTGGAGGAGATTACAGTGTGAGCCCTGACTCTGAGCC

Hum. 1440 1450 1460 1470 1480 1490 1500
TGTTCGAAACCTGCAGCTGGCCCCCAGGGTGCAGTGTTCGTAGGCTTCTCAGGAGGTCTCTGGAGG
Mur. 1470 1480 1490 1500 1510 1520 1530
TGTTCGAAACCTGCAGCTGGCCCCCAGGGTGCAGTGTTCGTAGGCTTCTCTGGAGGCTCTCTGGAGA

Hum. 1510 1520 1530 1540 1550 1560 1570
GTGCCCCGAGCCAACCTGTAGTGTCTATGAGAGCTGTGTGGACTGTGTCTTGGCCGGGACCCCCACTGTG
Mur. 1540 1550 1560 1570 1580 1590 1600
GTTCACAGGGCAATTGCAGTGTCTACGAGAGCTGTGTGGACTGTGTGCTTGGCCAGGGACCTCACTGTG

Hum. 1580 1590 1600 1610 1620 1630 1640
 CCTGGGACCCTGAGTCCCGAACCTGTTGCCTCCTGTCTGCCCCAACCTGAACCTCTGGAAGCAGGACAT
 Mur. 1610 1620 1630 1640 1650 1660 1670
 CCTGGGACCCTGAATCAAGACTCTGCAGCCTTCTGTCTGGCTC-TACCAAGCCT--TGGAAGCAGGACAT

Hum. 1650 1660 1670 1680 1690 1700 1710
 GGAGCGGGGAACCCAGAGTGGGCATGTGCCAGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGAGCCGC
 Mur. 1680 1690 1700 1710 1720 1730 1740
 GGAACGCGGCAACCCGAGTGGGTATGCACCCGTGGCCCCATGGCCAGGAGCCCCGGCGTCAGAGCCCC

Hum. 1720 1730 1740 1750 1760 1770 1780
 CCGCAAATCATTAAAGAAGTCCTGGCTGTCCCCAACTCCATCCTGGAGCTCCCCTGCCCCCACCTGTCTAG
 Mur. 1750 1760 1770 1780 1790 1800 1810
 CCTCAACTAATTAAAGAAGTCCTGACAGTCCCCAACTCCATCCTGGAGCTGCGCTGCCCCCACCTGTCTAG

Hum. 1790 1800 1810 1820 1830 1840 1850
 CCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTCCAGAACCTCTTCCACTGTCTACAATGG
 Mur. 1820 1830 1840 1850 1860 1870 1880
 CACTGGCCTCTTACCAGTGGAGTCATGGCCGAGCAAAATCTCAGAACCTCTGTCTACCGTCTACAATGG-

Hum. 1860 1870 1880 1890 1900 1910 1920
 CTCCCTCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCAGTGTCTGGGCAACTGAGAATGGCTTT
 Mur. 1890 1900 1910 1920 1930 1940 1950
 CTCCCTCTTGCTGCTGCCGAGGATGGTGTGCGGGGCTCTACCAGTGTGTGGCGACTGAGAACGGCTAC

Hum. 1930 1940 1950 1960 1970 1980 1990
 TCATACCCTGTGATCTCCTACTGGGTGGACAGCCAGGACCAGACCCTGGCCCTGGATCCTGAACCTGGCAG
 Mur. 1960 1970 1980 1990 2000 2010 2020
 TCATACCCTGTGGTCTCCTATTGGGTAGACAGCCAGGACCAGCCCTGGCGCTGGACCCTGAGCTGGCGG

Hum. 2000 2010 2020 2030 2040 2050 2060
 GCATCCCCCGGAGCATGTGAAGGTCCCGTTGACCAGGGTCAGTGGTGGGGCCGCCCTGGCTGCCACGA
 Mur. 2030 2040 2050 2060 2070 2080 2090
 GCGTTCCCCGTGAGCGTGTGCAGGTCCCGCTGACCAGGGTCGGAGGCGGAGCTTCCATGGCTGCCACGG

Hum. 2070 2080 2090 2100 2110 2120 2130
 GTCCTACTGGCCCCACTTTGTCACTGTCACTGTCTCTTTGCCTTAGTGCTTTTCAGGAGCCCTCATCATC
 Mur. 2100 2110 2120 2130 2140 2150 2160
 GTCCTACTGGCCCCATTTTCTCATCGTTACCGTCTCTGGCCATCGTCTCCTGGGAGTGCTCACTCTC

Hum. 2140 2150 2160 2170 2180 2190 2200
 CTCGTGGCCTCCCCATTGAGAGCACTCCGGGCTCGGGGCAAGGTTTCAGGGCTGTGAGACCCTGCGCCCTG
 Mur. 2170 2180 2190 2200 2210 2220 2230
 CTCCTCGCTTCCCCACTGGGGGCGTTCGGGCTCGGGGTAAGGTTTCAGGGCTGTGGGATGCTGCCCCCA

Hum. 2210 2220 2230 2240 2250 2260 2270
 GGGAGAAAGCCCCGTTAAGCAGAGAGCAACACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGA
 Mur. 2240 2250 2260 2270 2280 2290 2300
 GGGAAAAGGCTCCACTGAGCAGGGACCAGCACCTCCAGCCCTCCAAGGACCACAGGACCTCTGCCAGTGA

Hum. 2280 2290 2300 2310 2320 2330 2340
 TGTGGACGTGACAACAACCTGCCTAGGCACTGAGGTAGCTTAAACTCTAGGCACAGG-CCGGGGCTG--C
 Mur. 2310 2320 2330 2340 2350 2360 2370
 CGTAGATGCCGACAACAACCATCTGGGCGCCGAAGTGGCTTAAACA-GGGACACAGATCCGCAGCTGAGC

Hum. 2350 2360 2370 2380 2390 2400 2410
 GGTGCAGGCACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAGCCCTGACTAGGATGACAGCAGCACAAA
 Mur. 2380 2390 2400 2410
 AGAGCAAGCCACTGGCCTTGTGGCTATGC---CAGGCACAG-----TGCCACTCT--

Fig. 3H

32/53

2420 2430 2440 2450 2460 2470 2480
Hum. AGACCACCTTTCTCCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGGTGTATGC
Mur. -GACCA-----GGGTAGGAG--GCT-CT-C-CTGCTA-ACGTGTGTAC-CTACAG-----C
2430 2440 2450 2460

2490 2500 2510 2520 2530 2540 2550
Hum. ACAGCAGTCTG-CCTCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCT
Mur. ACC-CAGTAGGTCCCTCCCTGTGGGACTCTCTTCTGC-AAGCACATT-----GGGCT
2470 2480 2490 2500 2510

2560 2570 2580 2590 2600 2610
Hum. ACCCCCAGACCTGCTCCTACACTGATA-TTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAG
Mur. GTCTCCATACCTGTACTTGTGCTGTGACAGGAAGAGCCAGAC-AGGTTTCTTTGATTGATTGACCCAA
2520 2530 2540 2550 2560 2570 2580

2620 2630 2640 2650 2660 2670 2680
Hum. GGACCCT-CCAGAAACACA-GTGTTCAGAGATCCTAAAAAACCTGCCTGTCCCAGGACCCTATGGTA
Mur. GAGCCCTGCCTGTAACAAACGTGCTCCAGGAGA-CCATGAAAGGTGTGGCTGTCT-GGGATTCTGTGGTG-
2590 2600 2610 2620 2630 2640 2650

2690 2700 2710 2720 2730 2740 2750
Hum. ATGAACACCAAACATCTAAACAATCATATGCTAA-CATGC---CAC--TCCTGGAACT-CCACTCTGAA
Mur. ACAAAC-CTAAGCATCCGAGCAAGCTGGGGCTATTCTGCAAACCTCCATCCTGAACGCTGTCACTCTAGA
2660 2670 2680 2690 2700 2710 2720

2760 2770 2780 2790 2800 2810
Hum. ----GCTGCCGCTTTGGACACCAACACTCCCTTCT-CCCAGG-GTCATGCAGGGATCTGCTCCCTCCTGC
Mur. AGCAGCTGCTGCTTTGAACACCAGCCACCTCCTTCCCAAGAGTCTCTATGGAGTTGGC-CCCTTGTGT
2730 2740 2750 2760 2770 2780 2790

2820 2830 2840 2850 2860 2870 2880
Hum. TTCCCTTACCAGTCGTGCACCGCTGACTCCCAGGAAGTCTTCTCTGAAGTCTGACCACCTTTCTTCTTGC
Mur. TTCCTTTACCAGTCGGGCCATACCTGTTT---GGGAAGTCATCTCTGAAGTCTAACCACCTTCTTCTTGG
2800 2810 2820 2830 2840 2850

2890 2900 2910 2920 2930 2940 2950
Hum. TTCAGTTGGGGCAGACTCTGATCCCT---TCTGCCCTGGCAGAAATGGCAGGGGTAATCTGAGCCTTCTTC
Mur. TTCAGTTGGACAGATTGTTATTATGCTCTGCCCCTGGCTAGAATGGGGGCATAATCTGAGCCTTGTTC
2860 2870 2880 2890 2900 2910 2920

2960 2970 2980 2990 3000 3010
Hum. ACTCCTTTACCC---TAGCTGACCCCTTCACCTCTCCC--CCTCCCTTTTCTTTGTTTGGGATTTCAGA
Mur. ---CCTTGTCCAGTGTGGCTGACCC-TTGACCTCTTCTTCTCC---TCCCTTTGTTTGGGATTTCAGA
2930 2940 2950 2960 2970 2980 2990

3020 3030 3040 3050 3060 3070 3080
Hum. AAAGTCTTGTCTCAGAGACTGTTTATTTTATTAAAAATATAAGGCTTAAAAAAAAAAAAAAAAAAAA
Mur. AAAGTCTTGTCTCAGACAAATTTATTTTATTAAAAA-----AGATATAA
3000 3010 3020 3030

3090 3100
Hum. AAAAAAAGGGCGCCGC
Mur. GCTTTAAAG-----
3040

Fig. 3I

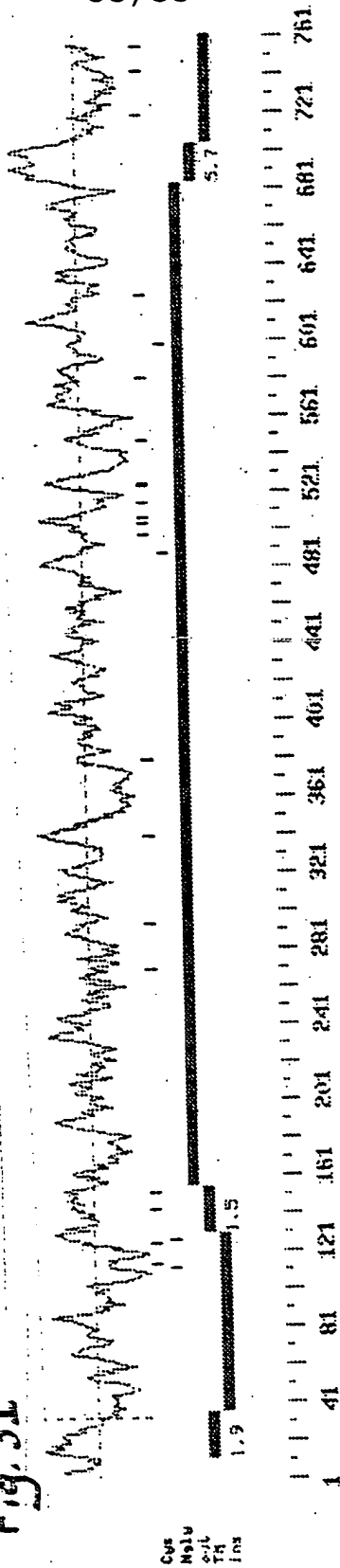


Fig. 4A

GTGACCCACGCGTCCGCGGACGCGTGGGGACGGCTCCCGGCTGCAGTCTGCCCCGCCCGCCCGCGCGGGGGCCGAGTC 79

CGGAAGCGCGCCTGCGACCCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCC	M	R	R	Q	P	A	6
ATG AGG CGC CAG CCT GCG	152						
K V A A L L L G L L L E C T E A K K H C	26						
AAG GTG GCG GCG CTG CTG CTC GGG CTG CTC TTG GAG TGC ACA GAA GCC AAA AAG CAT TGC	212						
W Y F E G L Y P T Y Y I C R S Y E D C C	46						
TGG TAT TTC GAA GGA CTC TAT CCA ACC TAT TAT ATA TGC CGC TCC TAC GAG GAC TGC TGT	272						
G S R C C V R A L S I Q R L W Y F W F L	66						
GGC TCC AGG TGC TGT GTG CGG GCC CTC TCC ATA CAG AGG CTG TGG TAC TTC TGG TTC CTT	332						
L M M G V L F C C G A G F F I R R R M Y	86						
CTG ATG ATG GGC GTG CTT TTC TGC TGC GGA GCC GGC TTC TTC ATC CGG AGG CGC ATG TAC	392						
P P P L I E E P A F N V S Y T R Q P P N	106						
CCC CCG CCG CTG ATC GAG GAG CCA GCC TTC AAT GTG TCC TAC ACC AGG CAG CCC CCA AAT	452						
P G P G A Q Q P G P P Y Y T D P G G P G	126						
CCC GGC CCA GGA GCC CAG CAG CCG GGG CCG CCC TAT TAC ACT GAC CCA GGA GGA CCG GGG	512						
M N P V G N S M A M A F Q V P P N S P Q	146						
ATG AAC CCT GTC GGG AAT TCC ATG GCA ATG GCT TTC CAG GTC CCA CCC AAC TCA CCC CAG	572						
G S V A C P P P P A Y C N T P P P P Y E	166						
GGG AGT GTG GCC TGC CCG CCC CCT CCA GCC TAC TGC AAC ACG CCT CCG CCC CCG TAC GAA	632						
Q V V K A K *	173						
CAG GTA GTG AAG GCC AAG TAG	653						

TGGGGTGGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCCCTGGCCTTTCTGTCTTCGTTGATGTTCACTTCCAG	732
GAACGGTCTCGTGGGCTGCTAAGGGCAGTTCTCTGATATCCTCACAGCAAGCACAGCTCTCTTTTCAGGCTTTCCATGG	811
AGTACAATATATGAACTCACACTTTGTCTCCTCTGTGTGCTTCTGTTTCTGACGCAGTCTGTGCTCTCACATGGTAGTGT	890
GGTGACAGTCCCCGAGGGCTGACGTCCTTACGGTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAG	969
TGCTGGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCCAGGCAAGCATCCTTCTGCCCCGGGTATTAATAGG	1048
AAGCCCCATGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTCATCTGCTCCAGCCTGT	1127
CCTCTCGTCAGCCTTCTCTTTCCAGAAGCTGTGGAGAGACATTCAGGAGAGAGCAAGCCCCCTTGTTCATGTTTCTGTCT	1206
CTGTTTCATATCCTAAAGATAGACTTCTCCTGCACCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACC GCAGGATGGGGC	1285
CTAGAATCAGGCTTGCCCTTGGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCA	1364
CTTCTGCCCCAAACTGAGACATTTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTTTG	1443
GTGTGTTTATGGAAGTGCATGTAGAGCGTCTGCCCCTTTGAAATCAGACTGGGTGTGTGTCTTCCCTGGACATCACATGC	1522
CTCTCCAGGGCATTTCTCAGGCCCGGGGTCTCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGTCTTTCAAA	1601
ACGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGT	1680

GTTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCAAC	1759
TGCACTGACCATGTTGTCATAATTAGAATAAAGAAGAAGTGGTCGGAAATGCACATTCCCTGGATAGGAATCACAGCTCA	1838
CCCCAGGATCTCACAGGTAGTCTCCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTGA	1917
TGTGTGAACGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCGCCTAGATTACTAGATGTGCTGTAT	1996
CACGGGGAATGAGGTGGGGGTGCTTATTTTTTAATGAACTAATCAGAGCCTCTTGAGAAAATTGTTACTCATTGAACTGG	2075
AGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGGTGTCCATGCTTTTCACTCTGAGGACATTTAATCGGAG	2154
AACCTCCTGGGGAATTTTGTGGGAGACACTTGGGAACAAAACAGACACCTGGGAAATGCAGTTGCAAGCACAGATGCTG	2233
CCACCAGTGTCTCTGACCACCCTGGTGTGACTGCTGACTGCCAGCGTGGTACCTCCCATGCTGCAGGCCCTCCATCTAAA	2312
TGAGACAACAAAGCACAAATGTTCACTGTTTACAACCAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCCCTCCAGGTCA	2391
TTTGTTTTGTCATTTTTAATGTCTTTATTTTTTTGTAATGAAAAAGCACACTAAGCTGCCCTGGAATCGGGTGCAGCTGA	2470
ATAGGCACCCAAAAGTCCGTGACTAAATTTTCGTTTGTCTTTTTTGATAGCAAATTATGTTAAGAGACAGTGATGGCTAGG	2549
GCTCAACAATTTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTTTTCCCTTGAACCTGGTTAGAATTGTGCTACTGT	2628
GAACGCTGATCCTGCATATGGAAGTCCCACCTTTGGTGACATTTCCCTGGCCATTCTTGTTTCCATTGTGTGGATGGTGGG	2707
TTGTGCCCACCTCCCTGGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCCGTGGTTCAGAGTAACTTGAAG	2786
CAGATCTGTGCATGCTTTTCCCTCTGCAACAATTGGGCTCGTTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCCT	2865
ATGTGTGCAAAAATAAAAAATAAATTTGGGCAA	2944
AAAAAAGGGCGGCCGC	2964

Fig. 4B

Fig. 4C

GTCGACCCACGCGTCCGGCCGCGCGTCTTCTGCCGGCTTCAGCTCGTATCCCCGGAGTCCACCCGCCCCGTCCCGGGGT 79
 GCGGACTGGCCCTGAGCTGGCCGTACAGCCCGGCTTCGGACGGTCTCGCTGGAGCC ATG GGC CGC CGG CTC 151
 M G R R L 5
 G R V A A L L L G L L V E C T E A K K H 25
 GGC AGG GTG GCG GCG CTG CTG CTC GGG CTG CTA GTG GAG TGC ACT GAG GCC AAA AAA CAT 211
 C W Y F E G L Y P T Y Y I C R S Y E D C 45
 TGC TGG TAT TTT GAA GGA CTC TAT CCC ACA TAC TAT ATA TGC CGT TCC TAT GAA GAC TGC 271
 C G S R C C V R A L S I Q R L W Y F W F 65
 TGT GGC TCC AGG TGC TGT GTG AGG GCC CTT TCC ATA CAG AGG CTG TGG TAT TTT TGG TTC 331
 L L M M G V L F C C G A G F F I R R R M 85
 CTG CTG ATG ATG GGT GTG CTG TTC TGC TGT GGT GCC GGT TTC TTC ATT CGC CGG CGC ATG 391
 Y P P P L I E E P T F N V S Y T R Q P P 105
 TAT CCG CCA CCA CTC ATT GAG GAG CCC ACA TTC AAT GTG TCC TAT ACC AGG CAG CCA CCA 451
 N P A P G A Q Q M G P P Y Y T D P G G P 125
 AAT CCT GCT CCA GGA GCA CAG CAA ATG GGA CCG CCA TAT TAC ACC GAC CCT GGA GGA CCC 511
 G M N P V G N T M A M A F Q V Q P N S P 145
 GGG ATG AAT CCT GTT GGC AAT ACC ATG GCT ATG GCT TTC CAG GTC CAG CCC AAT TCA CCT 571
 H G G T T Y P P P P S Y C N T P P P P Y 165
 CAC GGA GGC ACA ACT TAC CCA CCC CCT CCT TCC TAC TGC AAC ACG CCT CCA CCC CCC TAT 631
 E Q V V K D K * 173
 GAA CAG GTG GTG AAG GAC AAG TAG 655
 CAGATGCTACATCAAAGGCAAAGAGGATGGACAGGCCCTTTTGTGTTACCTTCCCATCCTCACCATACTTGCTGATAG 734
 GGTGGTCCAAGGGAAAACCTTGGATATTCTCAAAGCAAGCCCAGCTCTCTTTCAAGTCTTTTGTGGAGGACATTTGAATC 813
 CACACTGTCTCCTCTGTTGCTTCTGTTTCTGATGTAGTCTGTGCTCTCTGAGAGAGTGTGGCAACAGTCCCTGAGGGTT 892
 GATATTCCTAGGGTGTCCAGGGTAGATCCTCGGGAGAGAGGCTAAGGGGAAAGGAAGGCATAGCCTGTGTGTTAGGGGG 971
 CAGATAAAGTGGTCAGGCTGAGATAAGACTCACATGATGCAGTAGTTGGCAGTGAACCTTCGAAGAGACACTATCCACCA 1050
 TCCCAGCCCATTCTCCTAATAGAAGCTGTGGGGCTGTGTTGTTGATGCTCTTTGGTCTCCACTCACATTTTGAAAATAG 1129
 GCTTTCCTCTGCAGGAATAGGAAAGACCCAAGTACATATTTGCTTCCACTTAAAAATGAGGGTCAGAACCAGGCCTCAG 1208
 TTGGACATCTATAGTTAAATAAAGGCCATTAGAGAGGGGAAATCTTTAAGTTAGGGGAAATTCTCTAAATGGAGACATT 1287
 GCGTTTTATGAATCATCGTCTGGCTTTTCTTTTAGTGATGTATTGAAGTGAGGGTGTCTTTGAGATCAGATGGGGAG 1366
 AGTGAACCTCTGCGGGGGGTGGGGTGTCTCTACTCAGAGGGCTCCAACACCCTTTTCTTAGGTAGTTCTGGTGATGGGTT 1445
 TTATGGGCACTATAGAGCTGAGGGGCACATTAGGCCGGGTAGTTACATTGACCCTTGGAGAGGAAGAGGACAGCCAAAG 1524

AAAC TCAGCAAAGCAAGACCAGCATTGCTGAGTTAGAGCTAGGGTTGTATGTGATCCCAACAGAGATGTGCTGGCCTCA 1603
 GAAGAGGGGACGTTTGTGGATAGAGCCGTGAAAACTACTTAGTTGCACAGATGACATAATCAAAAGTAGAGAAAGAAG 1682
 TG TAGTTAGAGATGCCATTTCCAGGTGAGAATCAGAGCTCATCCATAGATTTACAAGTAGTGGCTGGAGTTAACAGTA 1761
 TGGAGTTC TTTTCCCTTGCGTAGTTAGTCACGTTGATGTGTATTTAAACCCAGGTTGAGACCTTGTGTACTAAGAGCAA 1840
 GGAAGTATAGCTAAGATGTCTAGATTATTTATATGTAGTATGGTGGGGAGTGGGGCTGCAAGGAAGGGGGCTGACATTG 1919
 TAAATGAGAAAATCAGAGCCATTTGATAAACTGTTACTTGTGGATCAGGCATCCAAAAGTGTCTCTTGAGTGGACATT 1998
 GAGTATTCTTTACCACCTACAAGACCAGGAGGCATGGTGTCAATTCTCCATTGGGGTATTTATATGAGGTAGAGGTTTCAG 2077
 GAATCGACAGTAGCTGTGTGGGCTTAGTTTAAAGACTGAAAGCATAGGGACTGGTAGACAGTTTCATAGGAAACTGCGG 2156
 GGAAGGAATGGATACCTTTAAAGACAGTTTGTGGATGCAGATGCTGCCACCCATCATTGAGCACCCCTTGTGTCTCTGGC 2235
 TTCCTGTCACTGGATCCAGTACCCCTCCATGCTTGGGTCTTGT TTTACATAAGACAACAAAGCACAAATGTCTGCTGTT 2314
 TACAATCAAGACGACTACATGGTCCAAACATTTCTTCTCTCTTCTATCACTTGTGGCTTTAACTTCCATTTCCTCCGTT 2393
 CCTTTT TAAAATCAAGAAGCACAGTCAGAGCTGCCCCCTGGGATTGCATCAGGGAACGGCTGATCAAGGCATT CAGTGTC 2472
 CATGACTAAATCTTATCTTTTGTAGCAAATCCTTTTAAAGAACTGAACAATTGCTAAGGCTCAGCAATTTTATACTC 2551
 CAATGTCTGTGTAAGGTAAATTTTGT TTTGCCATTGAGCCACATTTGGAATTCCTTCTGACGTCAACACTGACAATGCCT 2630
 ATGGAAATTGCACCTTCTGGGTATATGTCCCAGCATCCTTGT TTTCTTATGT TTTGGTGAGTAAGGCTCACCCCTTCCAGC 2709
 AGCTCTACTTCTGTGTGCTGAGGTCTGTAGAGCCGGGGCTTGGGCACAGACATGAGGCAGACTTGTGCATGCTCTTTC 2788
 TTGGCAACACTTGGCTCATATTTCTTGT TCTCTTTTGATAGAGTCCTGT TTTCTATGTATTTAAAAAATAATAAAAGTG 2867
 AATTTAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGC 2915

Fig. 4D

	10	20	30	40	50	60	70
<i>Hum.</i>	MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRLSIQRLWYFWFLMMG						
	:	:	:	:	:	:	:
<i>Mur.</i>	MGRRLGRVAALLLGLLVECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRLSIQRLWYFWFLMMG						
	10	20	30	40	50	60	70

	80	90	100	110	120	130	140
<i>Hum.</i>	VLFCGAGFFIRRRMYPPPLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVGNMAMAFQV						
	:	:	:	:	:	:	:
<i>Mur.</i>	VLFCGAGFFIRRRMYPPPLIEEPTFNVSYTRQPPNPAPGAQQMGPYYTDPGGPGMNPVGNMTAMAFQV						
	80	90	100	110	120	130	140

	150	160	170
<i>Hum.</i>	PPNSPQGSVACPPPPAYCNTPPPPYEQVVAK		
	:	:	:
<i>Mur.</i>	QPNSPHGGTTYPPPPSYCNTPPPPYEQVVKDK		
	150	160	170

Fig. 4F

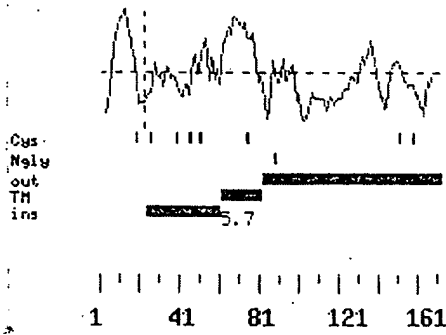


Fig. 4G

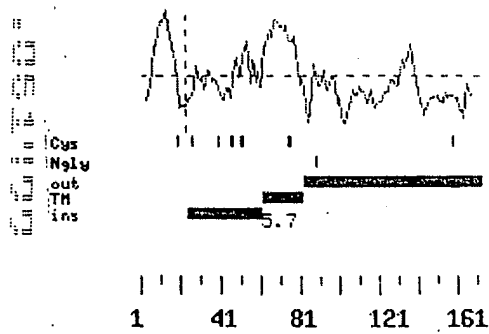


Fig. 5A

GTCGACCCACGCGTCCGCAGCTTTGGACACTTCCTCTGCTTGAGGACACCTTGACTAACCTCCAAGGGCAACTAAAGGA																			79

GTT TCC ATG GAC TTC GTT GCT AGT ACC AGT GTT GGC CTG GTT ATT TTG GGA CAA AGA CTG	1170
V C S L S L N R F R L A L P E S N R S N	366
GTC TGC TCC TTG TCT CTG AAC AGA TTC CGC CTT GCT TTG CCA GAG TCC AAT CGC AGC AAC	1230
I E V L R F E N I L S S I L H F G V L P	386
ATT GAG GTC TTG AGG TTT GAA AAT ATT CTA TCG TCC ATT CTT CAC TTT GGA GTC CTC CCA	1290
L A N A K L Q Q G F P L P N P H K F L F	406
CTG GCC AAT GCA AAA TTG CAG CAA GGA TTT CCT CTG CCC AAT CCA CAC AAA TTC TTA TTC	1350
V N S D I E V L E G F L L I S T D L K Y	426
GTC AAT TCA GAT ATT GAA GTT CTT GAG GGT TTC CTT TTG ATT TCC ACC GAC CTG AAG TAT	1410
E T S S K Q Q P S F H V W E G L N L I S	446
GAA ACA TCC TCA AAG CAG CAG CCA AGT TTC CAC GTA TGG GAA GGT CTG AAC CTG ATA AGC	1470
R Q W R G K S A P *	456
AGA CAG TGG AGG GGG AAG TCA GCC CCT TGA	1500
TTGCCGGTTTGTCAATTACACCCAGGAAGTAAATGGTCCTTAATCCTACAACCTACTGTAAACCCAGAAGGGAAAGACAGT	1579
AGACACTGGAATTGTAAAGCCCTTGTGAATTGCTTAGGCAGAAAGTTTCTTTCTTAAGCCTTCAGGAACCCAGAATAA	1658
GGCAGACTCTGTAAAGGGATAAATAGAGGTGTCTGAATGTGAGTGTATGCATGCTGCGTGTGTCTGTGTTTATGTTTG	1737
TTTGTTTGTGTTGGGGCAAGAAAGATTCTAGGACAAGAGCTAGGCATGTACTTCTGACCAGGTGGGTAAGCAACTCTAAG	1816
TCTGTATTTGTATTGGTCATTCTCAGTGGAAATCCCTTAGGCCCTCTAGTGGTTTTCCCTACCTGCATATTGGTTTTTC	1895
ATGTTTTATATTCACTGTTACTATCTTCTGTGTTTAATTAAATTTGTTTTCTATCAAAAAAAAAAAAAAAAAAAGGGC	1974
GGCCGC	1980

Fig. 5B

Fig. 5C

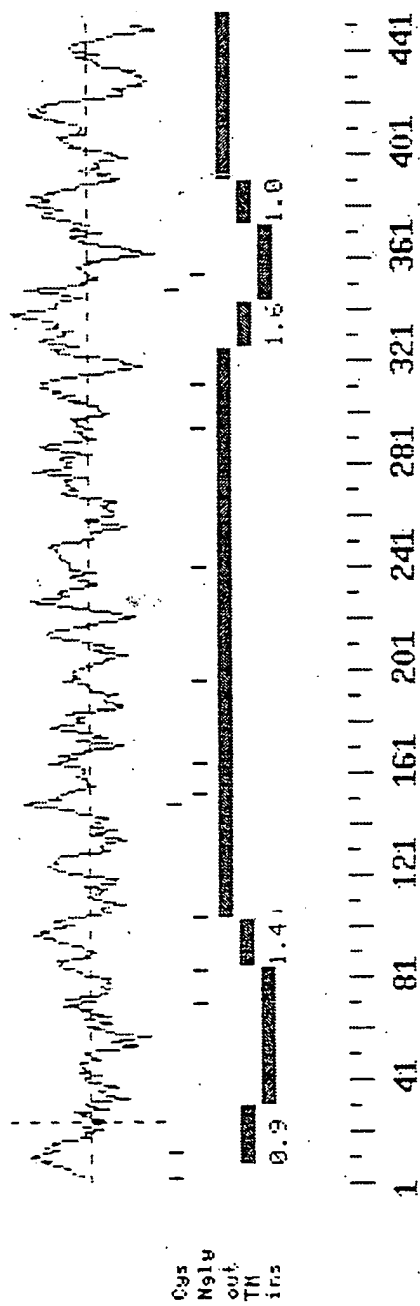


Fig. 5D

```

      10      20      30      40      50      60
286 MCTKT-IPVLWGCFL-LWNLYVSSSQTIYPGIKARITQRALDYGVOAGMKMIEQMLKEKKLPDLGSES
BP1 MARGPCNAPRWVSLMVLVAIGTAVTAAVNPGVVVRISQKGLDYASQQGTAALQKELKRIKIPDYS--DSF
      10      20      30      40      50      60

      70      80      90      100     110     120     130
286 EFLKVDYVNYNFSNIKISAFSFPNTSLAFVPGVGIKALTNHGTANISTDWGFESPLFVLYNSFAEPME--
BP1 KIKHLGKGHYSFYSDIREFQLPSSQISMVNVGLKFSISNANIKISGKWKAKRFLKMSGNFDLSIEGM
      70      80      90      100     110     120     130

      140      150
286 -----KPI-----LKN-LNEMLCPIIASE
BP1 SISADLKLGSNPTSGKPTITCSCSSHNSVHVHISKSKVGVLIQLFHKKIESALRNKMNSQVCEKVTNS
      140      150      160      170      180      190      200

      160      170      180      190      200      210      220
286 VKA-LNANLSTLEVLTKIDNYTLLDYSLISSPEITENYLDLNLKGVFYPLENLTDPFSPVPFVLPERSN
BP1 VSSKLQPYFQTLPMVKIDSVAGINYGLVAPPATTAETLDVQMKGEFYSENHNPPPFAPPVMEFPAHD
      210      220      230      240      250      260      270

      230      240      250      260      270      280      290
286 SMLYIGIAEYFFKSASFHFTAGVFNLTLSTEEISNH--FVQNSQGLGNVLSRIAETIYILSQPFMVRIMA
BP1 RMVYLGLSDYFFNTAGLVYQEAGVLKMTLRDDMIPKESKFRLLTKFFGTFLPEVAKKFP-NMKIQIHVSA
      280      290      300      310      320      330      340

      300      310      320      330      340      350      360
286 TEPPIINLQPGNFTLDIPASIMMLTQPKNSTVETIVSMDFVASTSVGLVILGQRLVCSLSLNRFRALPE
BP1 STPPHLSVQPTGLTFYPAVDVQAFVLPNSSLASLFLIGMHTTGSMEVSAESNRLVGELKLDRLLELKH
      350      360      370      380      390      400      410

      370      380      390      400      410      420      430
286 SNRSNIEVLRFENILSSILHFGVLPLANAKLQGGFPLPNPHKFLFVNSDIEVLEGFLLISTDLKYETSSK
BP1 SNIGPFPVELLQDIMNYIVPILVLRVNEKLQKGFPLPTPARVQLYNVVLQPHQNFLLFGADVYK----
      420      430      440      450      460      470      480

      440      450
286 QQPSFHVWEGLNLISRQWRGKSAP -

```

Fig. 5E

286 10 20 30 40 50 60
 MCTKTIPVLWGCFLWNLYVSSSQTI--YPGIKARITQRALDYGVOAGMKMIEQMLKEKKLPDLSGSESL
 RENP MGALARAL--PSILLALLLTSTPEALGANPGLVARITDKGLQYAAQEGLLALQSELLRITLPDFTG--DL
 10 20 30 40 50 60
 286 70 80 90 100 110 120 130
 EFLKVDYVNYNFSNIKISAFSFPNTSLAFVPGVGIKALTNHGTANISTDWGFESPLFVLYNSFAEPME--
 RENP RIPHVGRGRYEFHSLNIHEFQLPSSQISMVPNVGLKFSISNANIKISGKWKAKRFLKMSGNFDLSIEGM
 70 80 90 100 110 120 130
 286 140 150
 -----KPI-----LKN-LNEMLCPIIASE
 RENP SISADLKLGSNPTSGKPTITCSCSSHINSVHVHISKSKVGWLIQLFHKKIESALRNKMNSQVCEKVNTS
 140 150 160 170 180 190 200
 286 160 170 180 190 200 210 220
 VKA-LNANLSTLEVLTKIDNYTLLDYSLISSPEITENYLDNLKGVFYPLENLTDPFSPVPFVLPERSN
 RENP VSSKLQPYFQTLPMVKIDSVAGINYGLVAPPATTAETLDVQMKGEFYSENHHNPPPFAPPVMEFFAAHD
 210 220 230 240 250 260 270
 286 230 240 250 260 270 280 290
 SMLYIGIAEYFFKSASFHFTAGVFNLTLSTEEISNH--FVQNSQGLGNVLSRIAIEIYILSQPFMVRIMA
 RENP RMVYLGLSDYFFNTAGLVYQEAGVLKMTLRDDMIPKESKFRLLTKFFGTFLPEVAKKFP-NMKIQIHVSA
 280 290 300 310 320 330 340
 286 300 310 320 330 340 350 360
 TEPPIIINLQPGNFTLDIPASIMMLTQPKNSTVETIVSMDFVASTSVGLVILGQRLVCSSLNRFRLALPE
 RENP STPPHLSVQPTGLTFYPAVDVQALAVLPNSSLASLFLIGMHTTGSMEVSAESNRLVGELKLDRLLELKH
 350 360 370 380 390 400 410
 286 370 380 390 400 410 420 430
 SNRSNIEVLRFENILSSILHFGVLPLANAKLQQGFPLPNPHKFLFVNSDIEVLEGFLLISTDLKYETSSK
 RENP SNIGPFPVELLQDIMNYIVPILVLPRVNEKLQKGFPLPTPARVQLYNVVLQPHQNFLLFGADVVK----
 420 430 440 450 460 470 480
 286 440 450
 QQPSFHVWEGNLNISRQWRGKSAP -

Fig. 6A

GTCGACCCACGCGTCCGGGGAATTGCAGCAGGAAAAATATGTGAAGAGTTTTTAAACCCACAAATTCCTTCTTACTTTAGA 79

ATTAGTTGTTACATTGGCAGGAAAAAATAAATGCAGATGTTGGACC M L E T L S R Q 8
ATG TTG GAA ACC TTG TCA AGA CAG 149

W I V S H R M E M W L L I L V A Y M F Q 28
TGG ATT GTC TCA CAC AGA ATG GAA ATG TGG CTT CTG ATT CTG GTG GCG TAT ATG TTC CAG 209

R N V N S V H M P T K A V D P E A F M N 48
AGA AAT GTG AAT TCA GTA CAT ATG CCA ACT AAA GCT GTG GAC CCA GAA GCA TTC ATG AAT 269

I S E I I Q H Q G Y P C E E Y E V A T E 68
ATT AGT GAA ATC ATC CAA CAT CAA GGC TAT CCC TGT GAG GAA TAT GAA GTC GCA ACT GAA 329

D G Y I L S V N R I P R G L V Q P K K T 88
GAT GGG TAT ATC CTT TCT GTT AAC AGG ATT CCT CGA GGC CTA GTG CAA CCT AAG AAG ACA 389

G S R P V V L L Q H G L V G G A S N W I 108
GGT TCC AGG CCT GTG GTG TTA CTG CAG CAT GGC CTA GTT GGA GGT GCT AGC AAC TGG ATT 449

S N L P N N S L G F I L A D A G F D V W 128
TGC AAC CTG CCC AAC AAT AGC CTG GGC TTC ATT CTG GCA GAT GCT GGT TTT GAC GTG TGG 509

M G N S R G N A W S R K H K T L S I D Q 148
ATG GGG AAC AGC AGG GGA AAC GCC TGG TCT CGA AAA CAC AAG ACA CTC TCC ATA GAC CAA 569

D E F W A F S Y D E M A R F D L P A V I 168
GAT GAG TTC TGG GCT TTC AGT TAT GAT GAG ATG GCT AGG TTT GAC CTT CCT GCA GTG ATA 629

N F I L Q K T G Q E K I Y Y V G Y S Q G 188
AAC TTT ATT TTG CAG AAA ACG GGC CAG GAA AAG ATC TAT TAT GTC GGC TAT TCA CAG GGC 689

M T M G F I A F S T M P E L A Q K I K M 208
ACC ACC ATG GGC TTT ATT GCA TTT TCC ACC ATG CCA GAG CTG GCT CAG AAA ATC AAA ATG 749

Y F A L A P I A T V K H A K S P G T K F 228
TAT TTT GCT TTA GCA CCC ATA GCC ACT GTT AAG CAT GCA AAA AGC CCC GGG ACC AAA TTT 809

L L L P D M M I K G L F G K K E F L Y Q 248
TTG TTG CTG CCA GAT ATG ATG ATC AAG GGA TTG TTT GGC AAA AAA GAA TTT CTG TAT CAG 869

T R F L R Q L V I Y L C G Q V I L D Q I 268
ACC AGA TTT CTC AGA CAA CTT GTT ATT TAC CTT TGT GGC CAG GTG ATT CTT GAT CAG ATT 929

C S N I M L L L G G F N T N N M N M S R 288
TGT AGT AAT ATC ATG TTA CTT CTG GGT GGA TTC AAC ACC AAC AAT ATG AAC ATG AGC CGA 989

A S V Y A A H T L A G T S V Q N I L H W 308
GCA AGT GTA TAT GCT GCC CAC ACT CTT GCT GGA ACA TCT GTG CAA AAT ATT CTA CAC TGG 1049

S Q A V N S G E L R A F D W G S E T K N 328
AGC CAG GCA GTG AAT TCT GGT GAA CTC CGG GCA TTT GAC TGG GGG AGT GAG ACC AAA AAT 1109

L E K C N Q P T P V R Y R V R D M T V P 348

CTG GAA AAA TGC AAT CAG CCA ACT CCT GTA AGG TAC AGA GTC AGA GAT ATG ACG GTC CCT	1169
T A M W T G G Q D W L S N P E D V K M L	368
ACA GCA ATG TGG ACA GGA GGT CAG GAC TGG CTT TCA AAT CCA GAA GAC GTG AAA ATG CTG	1229
L S E V T N L I Y H K N I P E W A H V D	388
CTC TCT GAG GTG ACC AAC CTC ATC TAC CAT AAG AAT ATT CCT GAA TGG GCT CAC GTG GAT	1289
F I W G L D A P H R M Y N E I I H L M Q	408
TTC ATC TGG GGT TTG GAT GCT CCT CAC CGT ATG TAC AAT GAA ATC ATC CAT CTG ATG CAG	1349
Q E E T N L S Q G R C E A V L *	424
CAG GAG GAG ACC AAC CTT TCC CAG GGA CGG TGT GAG GCC GTA TTG TGA	1397
AGCATCTGACACTGACGATCTTAGGACAACCTCCTGAGGGATGGGGCTAGGACCCATGAAGGCAGAATTACGGAGAGCA	1476
GAGACCTAGTATACATTTTTTCAGATTCCCTGCACTTGGCACTAAATCCGACACTTACATTTACATTTTTTTTTCTGTAAA	1555
TTAAAGTACTTATTAGGTAAATAGAGGTTTTGTATGCTATTATATATTCTACCATCTTGAAGGGTAGGTTTTACCTGAT	1634
AGCCAGAAAAATATCTAGACATTCTCTATATCATTCAGGTAAATCTCTTTAAACACCTATTGTTTTTTCTATAAGCCAT	1713
ATTTTTGGAGCACTAAAGTAAAAATGGCAAATTTGGGACAGATATTGAGGTCTGGAGTCTGTGGATTATTGTTGACTTTGA	1792
CAAAATAAGCTAGACATTTTCACCTTGTTGCCACAGAGACATAACACTACCTCAGGAAGCTGAGCTGCTTTAAGGACAA	1871
CAACAACAAAATCAGTGTTACAGTATGGATGAAATCTATGTTAAGCATTCTCAGAATAAGGCCAAGTTTTATAGTTGCA	1950
TCCTCAGGGAAGAAAATTTTATAGGATGTTTATGAGTTCTCCAATAAATGCATTCTGCATTACATAAAAAAAAAAAAAAA	2029
AAAAAGGGCGGCCGC	2044

Fig. 6B

Fig. 6C

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294 10 20 30 40 50 60 70
MLETLSRQWIVSHRMEMWLLILVAYMFQRNVNSVHMPTKAVDPEAFMNISEIIQHOGYPCEEYEVEDG
HLP M-----WLL---LTMASLISVLGTTTHGLFGKLH-----PGSPEVTMNISQMITYWGYPNEEYEVVTEG
      10 20 30 40 50

294 80 90 100 110 120 130 140
YILSVNRIPRGLVQPKKTGSRPVVLLQHGLVGGASNWISNLPNNSLGFIADAGFDVWMGNSRGNWAWSRK
HLP YILEVNRIPYGKKNSGNTGQRPVVFLOHGLLASATNWI SNLPNNSLAFILADAGYDVWLGNSRGNTWARR
      60 70 80 90 100 110 120

294 150 160 170 180 190 200 210
HKTLSIDQDEFWAFSYDEMARFDLPAVINFILOKTGQEKIYYVGYSQGTMTMGFIAFSTMPELAQKIKMYF
HLP NLYYSPDSVEFWAFSFDDEMAKYDLPATIDFIVKKTGQKQLHYVGHSGGTTIGFIAFSTNPSLAKRIKTFY
      130 140 150 160 170 180 190

294 220 230 240 250 260 270
ALAPIATVKHAKSPGKTFLLLPDMMIKGLFGKKEFLYQTRFLRQ-LVIYLCGQVILDQICSNIMLLLGGF
HLP ALAPVATVKYTKSLINKLRFVPQSLFKFIFGDKIF-YPHNFFDQFLATEVCSREMLNLLCSNALFIICGF
      200 210 220 230 240 250 260

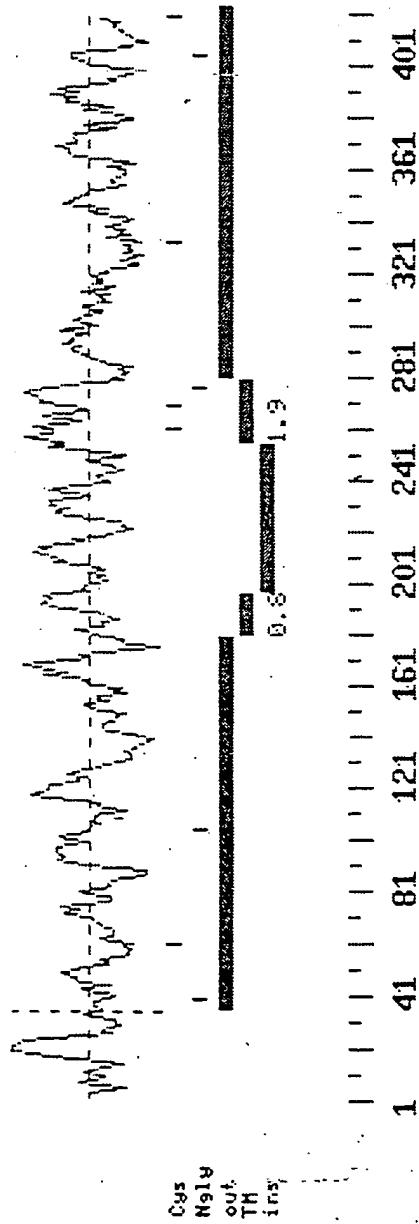
294 280 290 300 310 320 330 340
NTNNMNMMSRASVYAAHTLAGTSVQNILHWSQAVNSGELRAFDWGSETKNLEKCNQPTPVRYRVRDMTVPT
HLP DSKNFNTSRLDVYL SHNPAGTSVQNMFWHTQAVKSGKFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPI
      270 280 290 300 310 320 330

294 350 360 370 380 390 400 410
AMWTGGQDWLSNPEDVKMLLSEVTNLIYHKNIPEWAHVDFIWGLDAPHRMYNEIIHLMQQEETNLSQGRC
HLP AVWNGGKDLLADPQDVGLLLPKLPNLIYHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK-----
      340 350 360 370 380 390

294 420
EAVL
HLP -----

```

Fig. 6D



[illegible]

Fig. 7A

GTCGACCCACGCGTCCACGGCGAGGGCTCCCGGGGCGCAGCATTGCCCCCCTGCACCACCTCACCAAG																			M A	2
ATG GCT																				75
T	L	G	H	T	F	P	F	Y	A	G	P	K	P	T	F	P	M	D	T	22
ACT	TTG	GGA	CAC	ACA	TTC	CCC	TTC	TAT	GCT	GGC	CCC	AAG	CCA	ACC	TTC	CCG	ATG	GAC	ACC	135
T	L	A	S	I	I	M	I	F	L	T	A	L	A	T	F	I	V	I	L	42
ACT	TTG	GCC	AGC	ATC	ATC	ATG	ATC	TTT	CTG	ACT	GCA	CTG	GCC	ACG	TTC	ATC	GTC	ATC	CTG	195
P	G	I	R	G	K	T	R	L	F	W	L	L	R	V	V	T	S	L	F	62
CCT	GGC	ATT	CGG	GGA	AAG	ACG	AGG	CTG	TTC	TGG	CTG	CTT	CGG	GTG	GTG	ACC	AGC	TTA	TTC	255
I	G	A	A	I	L	A	V	N	F	S	S	E	W	S	V	G	Q	V	S	82
ATC	GGG	GCT	GCA	ATC	CTG	GCT	GTG	AAT	TTC	AGT	TCT	GAG	TGG	TCT	GTG	GGC	CAG	GTC	AGC	315
T	N	T	S	Y	K	A	F	S	S	E	W	I	S	A	D	I	G	L	Q	102
ACC	AAC	ACA	TCA	TAC	AAG	GCC	TTC	AGT	TCT	GAG	TGG	ATC	AGC	GCT	GAT	ATT	GGG	CTG	CAG	375
V	G	L	G	G	V	N	I	T	L	T	G	T	P	V	Q	Q	L	N	E	122
GTC	GGG	CTG	GGT	GGA	GTC	AAC	ATC	ACA	CTC	ACA	GGG	ACC	CCC	GTG	CAG	CAG	CTG	AAT	GAG	435
T	I	N	Y	N	E	E	F	T	W	R	L	G	E	N	Y	A	E	E	C	142
ACC	ATC	AAT	TAC	AAC	GAG	GAG	TTC	ACC	TGG	CGC	CTG	GGT	GAG	AAC	TAT	GCT	GAG	GAG	TGT	495
A	K	A	L	E	K	G	L	P	D	P	V	L	Y	L	A	E	K	F	T	162
GCA	AAG	GCT	CTG	GAG	AAG	GGG	CTG	CCA	GAC	CCT	GTG	TTG	TAC	CTA	GCT	GAG	AAG	TTC	ACT	555
P	R	S	P	C	G	L	Y	R	Q	Y	R	L	A	G	H	Y	T	S	A	182
CCA	AGA	AGC	CCA	TGT	GGC	CTA	TAC	CGC	CAG	TAC	CGC	CTG	GCG	GGA	CAC	TAC	ACC	TCA	GCC	615
M	L	W	V	A	F	L	C	W	L	L	A	N	V	M	L	S	M	P	V	202
ATG	CTA	TGG	GTG	GCA	TTC	CTC	TGC	TGG	CTG	CTG	GCC	AAT	GTG	ATG	CTC	TCC	ATG	CCT	GTG	675
L	V	Y	G	G	Y	M	L	L	A	T	G	I	F	Q	L	L	A	L	L	222
CTG	GTA	TAT	GGT	GGC	TAC	ATG	CTA	TTG	GCC	ACG	GGC	ATC	TTC	CAG	CTG	TTG	GCT	CTG	CTC	735
F	F	S	M	A	T	S	L	T	S	P	C	P	L	H	L	G	A	S	V	242
TTC	TTC	TCC	ATG	GCC	ACA	TCA	CTC	ACC	TCA	CCC	TGT	CCC	CTG	CAC	CTG	GGC	GCT	TCT	GTG	795
L	H	T	H	H	G	P	A	F	W	I	T	L	T	T	G	L	L	C	V	262
CTG	CAT	ACT	CAC	CAT	GGG	CCT	GCC	TTC	TGG	ATC	ACA	TTG	ACC	ACA	GGA	CTG	CTG	TGT	GTG	855
L	L	G	L	A	M	A	V	A	H	R	M	Q	P	H	R	L	K	A	F	282
CTG	CTG	GGC	CTG	GCT	ATG	GCG	GTG	GCC	CAC	AGG	ATG	CAG	CCT	CAC	AGG	CTG	AAG	GCT	TTC	915
F	N	Q	S	V	D	E	D	P	M	L	E	W	S	P	E	E	G	G	L	302
TTC	AAC	CAG	AGT	GTG	GAT	GAA	GAC	CCC	ATG	CTG	GAG	TGG	AGT	CCT	GAG	GAA	GGT	GGA	CTC	975
L	S	P	R	Y	R	S	M	A	D	S	P	K	S	Q	D	I	P	L	S	322
CTG	AGC	CCC	CGC	TAC	CGG	TCC	ATG	GCT	GAC	AGT	CCC	AAG	TCC	CAG	GAC	ATT	CCC	CTG	TCA	1035
E	A	S	S	T	K	A	Y	C	K	E	A	H	P	K	D	P	D	C	A	342
GAG	GCT	TCC	TCC	ACC	AAG	GCA	TAC	TGT	AAG	GAG	GCA	CAC	CCC	AAA	GAT	CCT	GAT	TGT	GCT	1095

L *
TTA TAA 344
1101
CATTCCTCCCCGTGGAGGCCACCTGGACTTCCAGTCTGGCTCCAAACCTCATTGGCGCCCCATAAAACCAGCAGAACTG 1180
CCCTCAGGGTGGCTGTTACCAGACACCCAGCACCAATCTACAGACGGAGTAGAAAAAGGAGGCTCTATATACTGATGTT 1259
AAAAAACAAAACAAAACAAAAGCCCTAAGGGACTGAAGAGATGCTGGGCCTGTCCATAAAGCCTGTTGCCATGATAAG 1338
GCCAAGCAGGGGCTAGCTTATCTGCACAGCAACCCAGCCTTTCCGTGCTGCCTTGCCTCTTCAAGATGCTATTCACTGA 1417
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CCTCTTGTTTTCTTTTTCTGGGTTCTTTTTGTTCTTCTTTACTTCTCCAGCTTGTGTGGCCTTTTGGTACAATGAA 1575
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CACCTACCTTGGCCCTCAAACACCCACCTCACAAGAAGCCAGGTGGGAAGTTAGGGAATCAACTCCAAAACGCTATTCTCT 1812
TCCCACCCCACTCAGCTGGGCTAGCTGAGTGGCATCCAGGACGGGGGAGTGGGTGACCTGCCTCATCACTGCCACCTAA 1891
CGTCCCCCTGGGGTGGTTTCAGAAAGATGCTAGCTCTGGTAGGGTCCCTCCGGCCTCACTAGAGGGCGCCCTATTACTC 1970
TGGAGTCGACGCAGAGAATCAGGTTTCACAGCACTGCGGAGAGTGTACTAGGCTGTCTCCAGCCCAGCGAAGCTCATGA 2049
GGACGTGCGACCCCGGCGCGGAGAAGCCATGAAAATTAATGGGAAAAACAGTTTTTAAAAAAAAAAAAAAAAAAGGGCG 2128
GCCGC 2133

Fig. 7B

Fig. 7C

